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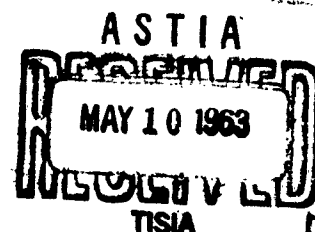
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REPORT NO. 1190
JANUARY 1963

NEUTRON REFLECTION AND FLUX VERSUS DEPTH FOR NEVADA TEST SITE SOIL

Frank J. Allen
Arnold Futterer
William Wright



RDT & E Project No. 1A022601A086
BALLISTIC RESEARCH LABORATORIES

ABERDEEN PROVING GROUND, MARYLAND

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FOREWORD

This is the second of a series of reports, each one of which presents calculated results for neutron reflection and flux versus depth for a single material. The first report, ERL Report No. 1189, gives the results for concrete. The present report contains the results for Nevada Test Site soil dry, 50% saturated, and 100% saturated. Other materials which will be treated in the series of reports include iron and water. For each material eight incident energies: 0.1, 0.25, 0.5, 1.0, 2.0, 3.0, 5.0 and 14.0 MEV and four incident angles for each energy: 0, 30, 45 and 70° are considered.

BALLISTIC RESEARCH LABORATORIES

REPORT NO. 1190

FJAllen/AFutterer/Wright/jdk
Aberdeen Proving Ground, Md.
January 1963

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NEVADA TEST SITE SOIL

ABSTRACT

Detailed calculated results on neutron reflection and flux versus depth for Nevada Test Site soil are given in the form of machine printouts. The angular and energy distributions of the reflected neutrons along with the energy-dependent and total flux at various depths are contained in tabular form on the printouts. Neutron number current, number flux and dose transmission as functions of thickness are also given in tabular form on the printouts.

Tables of summary information on reflection are presented. These contain number current, number flux, dose and energy reflection factors as functions of incident energy and angle.

A few figures are presented to illustrate graphically the meaning of the various tabular results.

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INTRODUCTION

A systematic study of neutron transport in common materials is in progress at the Ballistic Research Laboratories. Primary emphasis has been placed upon the dose transmitted through various thicknesses of these materials when mono-energetic neutrons strike a laterally infinite slab, not necessarily homogeneous, at a fixed angle of incidence. The principal results are given in Reference 1.

The Monte Carlo machine program which calculates these results also calculates number current, number flux, dose, and energy reflection and transmission; reflected and transmitted angular and energy distributions; and energy-dependent and total flux versus depth. Only a small fraction of this information has been reported previously in conjunction with the dose transmission results. A series of reports presenting this information is in preparation. The first report of the series, Reference 4, presents the results for concrete. The present report, the second in the series, gives similar results for soil. The soil chosen is Nevada Test Site soil (Area 7). The calculated results pertain to three conditions of the soil: dry (natural); 50% saturated; and 100% saturated. The reason for tabular presentation of the detailed results is simply that a much larger number of pages would be required to display equivalent information graphically. The gross results for reflection given in Tables 1A, 1B and 1C are discussed in the following section.

SUMMARY DATA ON REFLECTION

Tables 1A, 1B and 1C give the number current, number flux, energy and dose reflection factors (albedos) for eight incident energies (E_0) and four incident angles (θ_0). "Flux" and "factor" are defined in the next section. The slab thickness for which the entries in Tables 1A and 1B are calculated is 24 inches, except for incident energies of 5.0 and 14.0 MEV. For the latter two the thickness is 36 inches. The slab thickness for all entries in Table 1C is 24 inches. These thicknesses are sufficiently great so that the results differ imperceptibly from the corresponding results for slabs of infinite thickness.

The composition assumed for Nevada Test Site soil is based on that given in Reference 2. The atoms of all elements other than hydrogen, oxygen, aluminum, and silicon were replaced by silicon atoms. Table 7 gives the elemental composition assumed in the machine calculations. Moderate changes in the soil composition - except for the hydrogen content - would not alter greatly the results given.

The neutron cut-off energy of 10 electron volts was used for all of the calculations. Below this energy neutron trajectories were no longer followed in the machine program.

DESCRIPTION OF MACHINE PRINTOUTS

Two distinct types of machine printout are included in this report. For each incident neutron energy and angle, there are two printouts and these are placed side by side. We now describe the meaning of the information on the two types of printout, denoting them by Type 1 and Type 2. Although the actual printout sheets are not so labelled, no difficulty will be experienced in distinguishing between the two.

A. Description of Type 1 Printout

The problem calculated is defined by the fifth line of the machine printout, which gives the slab configuration, and the first two numbers of the fourth line, which give the neutron's incident energy (in MEV) and the cosine of the angle between the incident direction and the slab normal. The third number in the fourth line is the energy cutoff, that energy (in MEV) below which neutron trajectories are no longer traced in the Monte Carlo program. On the second line of the machine printout, the first two numbers are the run number, used for indexing purposes, and the number of neutron histories used in the Monte Carlo program. The fifth number in the second line is the number of mean free paths the incident neutron would have to traverse to emerge from the rear face of the slab without having suffered an interaction.

The third and fourth numbers on the second line designate the set of energy intervals and angular intervals, respectively, which are used in the calculation. A transmitted or reflected neutron emerges from the slab with a definite energy and direction; this precise information would be very

difficult to utilize. Therefore, a set of energy and angular intervals are utilized and the emergent neutron is placed in the appropriate interval. Several energy "sets" have been used. The energy intervals, of which the various sets are composed, are shown in Table 2. The sets are designed to make full use of the ten energy intervals available in the machine program for all source energies. Thus the intervals used must vary with the source energy. The scheme devised was that of refining the remaining upper energy intervals when decrease of the source energy makes the highest energy interval in a given set devoid of neutrons. This method provides the most detailed spectral information at the highest available emergent neutron energies, that is, in the most important part of the spectrum. At the same time, the lower energy intervals are constant from set to set (the sets are ordered: 2, 2A,... 2E), thus allowing intercomparison as the source energy is changed.

Tables 4 and 5 and the diagram accompanying Table 5 show the angular intervals which have been used. θ_1 , θ_2 , ϕ_1 , and ϕ_2 are the end points of the angular intervals shown in these tables. The θ -2541 histogram has been used for normally incident neutrons, the ϕ histogram for slant incident neutrons*.

The seventh and eighth lines of the ORDVAC printout give the position in centimeters of internal interfaces which subdivide the slab into eight regions. They are used by the Monte Carlo transport code to provide a spatial breakdown of certain events which take place within the slab.

The remaining entries on the Type 1 machine printouts are explained with the aid of the following notation.

* For some of the deep penetration calculations which employed a splitting technique in the basic Monte Carlo machine program, the θ - 2541 histogram was used even with slant incident neutrons. This is because primary emphasis has been placed upon transmission results. For deep penetrations the transmitted neutrons, with the exception of those remaining near the source energy after scattering from a light nucleus, have "forgotten", i.e., have little correlation with the incident direction. In these cases the distribution of transmitted neutrons is almost independent of the azimuthal angle.

Let T_{ij} = fraction of neutrons transmitted into the i^{th} energy group and j^{th} angular sector.

R_{ij} = fraction of neutrons reflected into the i^{th} energy group and j^{th} angular sector.

D_i = flux to dose conversion factor for i^{th} energy group (see Table 2).

D_E = flux to dose conversion factor for source energy (see Table 3).

Ω_j = number of steradians in j^{th} angular sector (see Tables 4 and 5).

θ = angle of incident neutrons with respect to slab normal.

$\overline{\text{Sec } \theta_j}$ = mean value of secant for neutrons in the j^{th} angular sector; actually the secant of the mean angle is used.

Subscripts i and j refer to the i^{th} energy group and j^{th} angular sector, respectively.

The flux-to-dose conversion factors in Tables 2 and 3 are based on Reference 3.

Then, F = incident flux per neutron = $\text{Sec } \theta$.

D = incident dose per neutron = $D_E \text{ Sec } \theta$.

The quantities in the table "Number of Scattered Neutrons vs. Energy" are then given by:

$$(\text{Number Transmission Factor})_i = \sum_{j=1}^{12} T_{ij} \quad i = 1, 2, \dots, 10$$

$$(\text{Number Flux Transmission Factor})_i = \frac{1}{F} \sum_{j=1}^{12} T_{ij} \overline{\text{Sec } \theta_j} \quad i = 1, 2, \dots, 10$$

$$(\text{Dose Transmission Factor})_i = \frac{D_i}{D} \sum_{j=1}^{12} T_{ij} \overline{\text{Sec } \theta_j} \quad i = 1, 2, \dots, 10$$

The corresponding quantities for the reflected neutrons are obtained by replacing T_{ij} by R_{ij} .

The quantities in the table "Number of Scattered Neutrons vs. Angle" are given by:

$$(\text{Number Transmission Factor})_j = \sum_{i=1}^{10} T_{ij} \quad j = 1, 2, \dots, 12$$

$$(\text{Number Transmission Factor/Steradian})_j = \frac{1}{\bar{n}_j} \sum_{i=1}^{10} T_{ij} \quad j = 1, 2, \dots, 12$$

$$(\text{Dose Transmission Factor/Steradian})_j = \frac{\overline{\text{Sec } \theta}_j}{D \bar{n}_j} \sum_{i=1}^{10} T_{ij} D_i \quad j = 1, 2, \dots, 12$$

The corresponding quantities for the reflected neutrons are again obtained by replacing T_{ij} by R_{ij} .

The quantities listed on the lines following the table "Number of Scattered Neutrons vs. Angle" are all defined when the word "Factor" is defined. Wherever the word "Factor" is used, the operation of dividing the quantity in question by the corresponding incident quantity is implied.

The final two quantities listed are not fractions, but are the mean energy of the scattered transmitted neutrons and of the reflected neutrons.

Table 6 is a list of abbreviations used on both the Type 1 and Type 2 machine printouts. It is believed that the abbreviations used will quickly become clear so that constant reference to the list will not be necessary.

The Type 1 printouts in the present report contain little or no information on transmission. This is because the slab is thick and, except for a few machine runs, no statistical efficiency improving technique was utilized in the calculations. The main machine printout contains detailed information on transmission for various depths within the slab. The Type 2 printout contains the most important part of this information.

B. Description of Type 2 Printout

The entries in the top three lines are identical to some of the entries previously defined for the Type 1 printout; they serve to identify the problem.

Fluxes and doses are defined as before. Note, however, that the word "factor" is not used on the Type 2 printout. All entries on this printout are given on a per incident neutron basis. That is, the phrase "per neutron" (or the abbreviation "per NT") on this printout means "per incident neutron."

The first two tables on this printout are the fluxes broken down into ten energy groups. The energy interval spanned by each group is given in Table 2; the last entry in the second row of the printout specifies the relevant energy set in Table 2.

The first table, "Scattered Flux per Neutron at Region Boundaries in Energy Groups", gives the energy-dependent fluxes due to scattered neutrons (uncollided excluded) at what are termed "region boundaries." The slab configuration through which the machine program traces neutron trajectories is divided into eight sub-slabs by means of seven interior interfaces. Each time a neutron crosses such an interface its contribution to the flux (in the energy interval appropriate for the crossing in question) is recorded. A neutron may cross an interior interface any number of times. Generally speaking, however, once a neutron gets more than a few inches from a given interface, it seldom recrosses that interface. Thus, for most of the interior interfaces the number of recrossings is approximately the same as would take place in the interior of a semi-infinite medium of the same material.

In the Type 2 printout all fluxes (and doses) calculated except those in the first row of entries of the first table "Scattered Flux per Neutron at Region Boundaries in Energy Groups" involve the secants of the actual angles at which the neutrons cross the various interfaces, except that for angles whose secant is greater than eight, the value eight is substituted for the secant. In the first row of entries of the first table, and in all cases on the Type 1 printout, the fluxes and doses calculated are based on an average value of the secant for each of the angular regions into which neutrons are grouped. The Type 1 printout fluxes are usually about 3 or 4% higher than

the Type 2, the value depending on the actual angular distribution. (This is apart from the difference between "Flux Transmission or Reflection Factor" and "Flux Transmitted or Reflected per Incident Neutron" in accordance with the previously given definitions of these terms). It is readily shown* that the fluxes calculated with the greatest value of the secant limited to eight are, on the average, six percent low for an isotropic distribution; the error is smaller for a distribution which is peaked forward (which is almost always the case for transmitted neutrons). Thus fluxes and doses listed on the Type 2 printouts average about 4 to 6% low, while those on the Type 1 printout average 1 or 2% low.

The second table, "Scattered Flux Transmitted per Neutron in Energy Groups Versus Thickness," again contains the energy-dependent fluxes, but this time only a neutron's first crossing of an interface is tallied. Thus, for example, the entries in the 4" row (left hand or index column reads 4") for a 24" thick slab constitute the energy-dependent fluxes which would be transmitted per incident neutron by a 4" thick slab - just as though the slab being treated in the machine program were only 4 inches thick. This method allows the calculation of eight problems simultaneously.

In the third or bottom table in the printout, the entries are not broken down by energy group. The first four columns contain information similar to that in the immediately preceding paragraph: each row corresponds to a slab whose thickness is specified in the index column, the remaining thickness of the slab actually treated having no effect on the table entries. Each column in this table bears its own heading. The first column represents the number (we use this interchangeably with the term number current) transmitted per incident neutron, including the uncollided. The second and third columns are the flux and dose per incident neutron, again including the uncollided. The fourth column gives the uncollided contribution to the flux per incident

* The authors are indebted to Dr. M. Kalos, United Nuclear Corporation, for this demonstration.

neutron*. The uncollided contribution to the number current is obtained from the entries in this column upon dividing by the secant of the incident angle; the uncollided contribution to the dose is obtained upon multiplication of the entries by the flux-to-dose conversion factor at the source energy from Table 3. (The machine program interpolates in a table in obtaining source energy flux-to-dose conversion factors.)

The final column in the bottom table provides information analogous to that in the first table, i.e., the result of every crossing of an interface by each neutron is contained therein. The uncollided contribution is also included here. Thus, the second and fifth columns of the bottom table represent a total over all energy groups (plus the uncollided) of the flux due to neutrons' first crossings of the various interfaces, and due to all crossings of the interfaces, respectively. The difference represents the effect of crossings other than the first.

In the first and third tables of the Type 2 printout, the first row of entries corresponds to zero inches, i.e., the incident face, the machine suppressing the zero. Since the first table refers to scattered neutrons only, the first row entries in this table are due solely to reflected neutrons. The first four columns of the third table refer to transmitted neutrons, so reflected neutrons are not included at the incident face (first row entries). The entry in the first row of the final column of the bottom table represents the sum of the fluxes due to the incident neutrons and the reflected neutrons.

DISCUSSION

For each of the three soil conditions: dry (natural), 50% saturated, and 100% saturated - treated in the order listed - the machine printouts are arranged in order of increasing energy; for each energy, they are arranged in

* At each interface, the uncollided flux in this column is based on an integral number of neutrons (or zero). This does not affect any other entries on the printout. When splitting is used, uncollided as well as scattered neutrons are split upon crossing a splitting surface.

order of increasing angle with respect to the slab normal. The incident energies (in MEV) for which results are given are: 0.1, 0.25, 0.5, 1.0, 2.0, 3.0, 5.0 and 14.0. The incident angles (degrees) are: 0, 30, 45 and 70°. Following the thirty-two sets of printouts so arranged for each soil condition, there are a few miscellaneous printouts. The latter were calculated after a "splitting" technique had been added to the basic Monte Carlo machine program. The flux distributions are reliable to much greater depths for the split runs (which require much more machine time) but the information on reflection is not significantly improved by splitting.

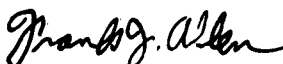
Figures 1 - 4 have been included to show graphically the meaning of some of the tabular results. Figure 1 is a reflected energy histogram illustrative of information contained on the Type 1 printout. The reflected energy distributions are seen to vary slowly with incident angle for a given incident energy, there being relatively more reflected neutrons near the source energy at the larger angles of incidence. Figure 2 is also obtained from a Type 1 printout and is typical of reflected angular distributions generally. For the normal incidence curves shown on Figure 2, there are twelve points whereas on the curves for slant incidence there are four points. Since for the case of normal incidence the reflected neutron distribution has no azimuthal dependence, the twelve available angular regions are all used to obtain the dependence of the reflected distribution upon the polar angle. For slant incident neutrons there is an azimuthal dependence; this has been suppressed in Figure 2 by integration over the azimuthal angle. This accounts for the greater dispersion of the plotted points for the normal incidence curves as compared with that of the slant incidence curves.

Figures 3 and 4 are obtained from the Type 2 printout. The shapes of the curves in Figure 3 are typical for flux versus depth plots for various materials, incident angles and incident energies. The curves for neutron energies near the source energy peak a little sooner than those for lower energies since fewer collisions are required for energies near the source energy. Peaking occurs on the order of a mean free path inside the slab and the rate of decrease after the peak is very nearly the same for all neutron energies. This is in accord with the fact that a quasi-equilibrium neutron

distribution becomes established after a penetration distance of a few mean free paths*. In Figure 4, the shapes of the curves are again similar. This figure illustrates the difference between flux versus depth (slab thickness 24") and flux versus thickness in which case the slab thickness is equal to the value of the abscissa just as though the remainder of the 24" were not present. The difference between the two curves in Figure 4 represents the increase in flux due to neutrons bouncing back and forth across a surface on the slab interior.

The total flux is always much better determined statistically than are the fluxes in the various energy groups. The fact that the rate of fall off after reaching the peak is about the same for all groups and for the total can be used in graphing the behavior of the flux in a particular energy group. Knowing the behavior of the energy-dependent fluxes enables one to calculate the volume distribution of any desired type of neutron interaction within a slab.

For certain problems which require detailed input information, it would be preferable to have the information in the form of analytical expressions fitted to the data since the handling of detailed information via tables is cumbersome, especially in hand computations. Many of the more important results conform to general patterns as depicted by the curves in the illustrative figures. Thus, one might expect a reasonable degree of success in fitting the results to analytical expressions. However, the tabular printouts contain a diversity of frequently useful information so that a large number of fits would be required. Those likely to be the most generally useful are not obvious at present. Further, each prospective user must place his own demands on the accuracy with which the analytical expressions fit the data, and the range over which each fit is valid. Therefore, the authors feel that the tabular display of results chosen is the most appropriate form of presentation.


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* The bending down of the curves indicates a slow softening of the spectrum.

FIG. 1-NEUTRON REFLECTED ENERGY SPECTRUM

SLAB MATERIAL-NEVADA TEST SITE SOIL (50% SATURATED)

INCIDENT ENERGY = 3 MEV

SLAB THICKNESS = 24 INCHES

θ_0 = ANGLE OF INCIDENCE

F = ARBITRARY NUMBER

BASED ON RUN NOS. 689-692

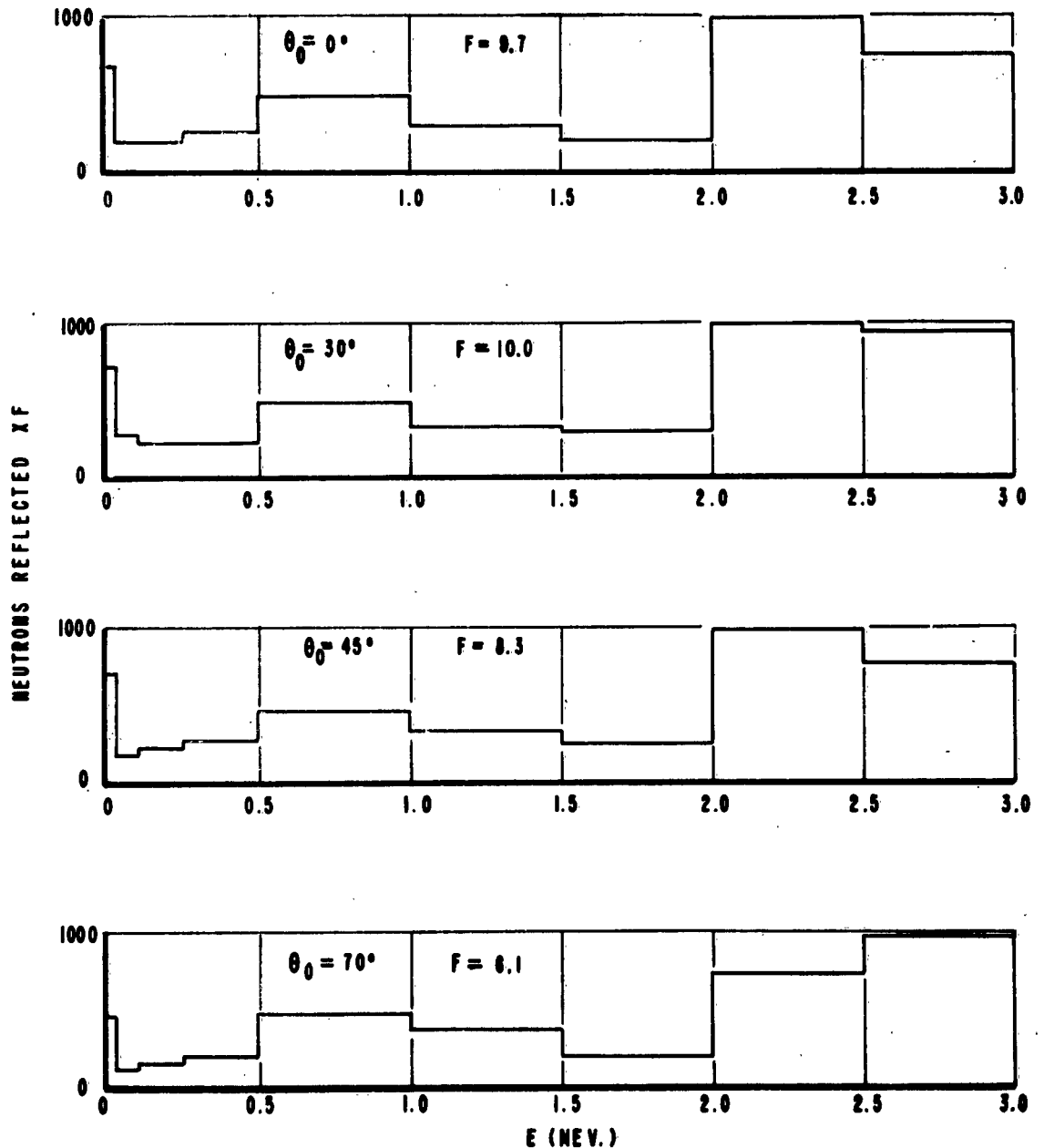


FIG. 2-NEUTRON REFLECTED ANGULAR DISTRIBUTION

SLAB CONFIGURATION = 24" NEVADA TEST SITE SOIL

INCIDENT ENERGY = 1.0 MEV

INCIDENT ANGLES:

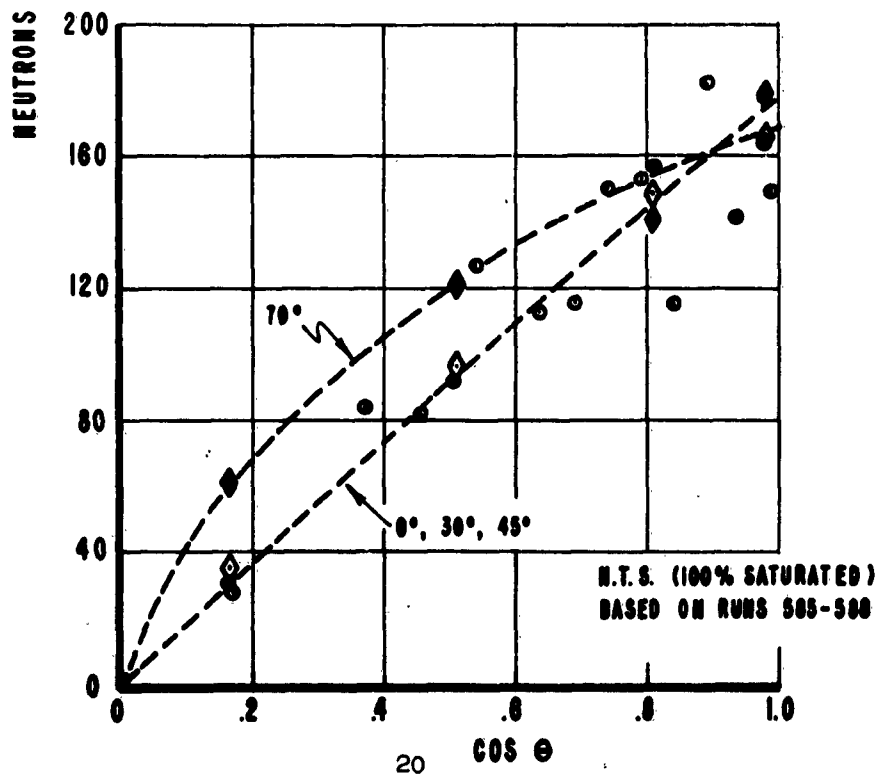
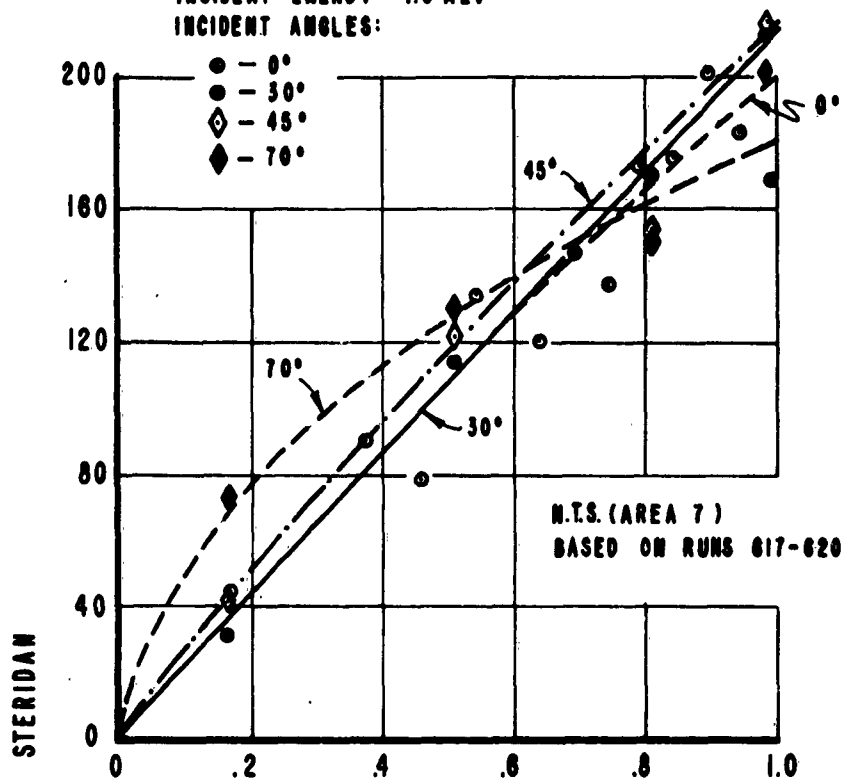


FIG. 3 - ENERGY DEPENDENT FLUX VS. DEPTH
SLAB CONFIGURATION - 24" NEVADA TEST SITE SOIL (AREA 7)
INCIDENT ENERGY - 2 MEV
ANGLE OF INCIDENCE - 0°
NEUTRON ENERGIES

- - 2.0 MEV.
- ◇ - 10 EV - 1.0 KEV
- - 1 - 1.5 MEV
- △ - 1.5 - 2.0 MEV

HOLLOW SYMBOLS - RUN NO. 621
 SOLID SYMBOLS - RUN NO. 23-5

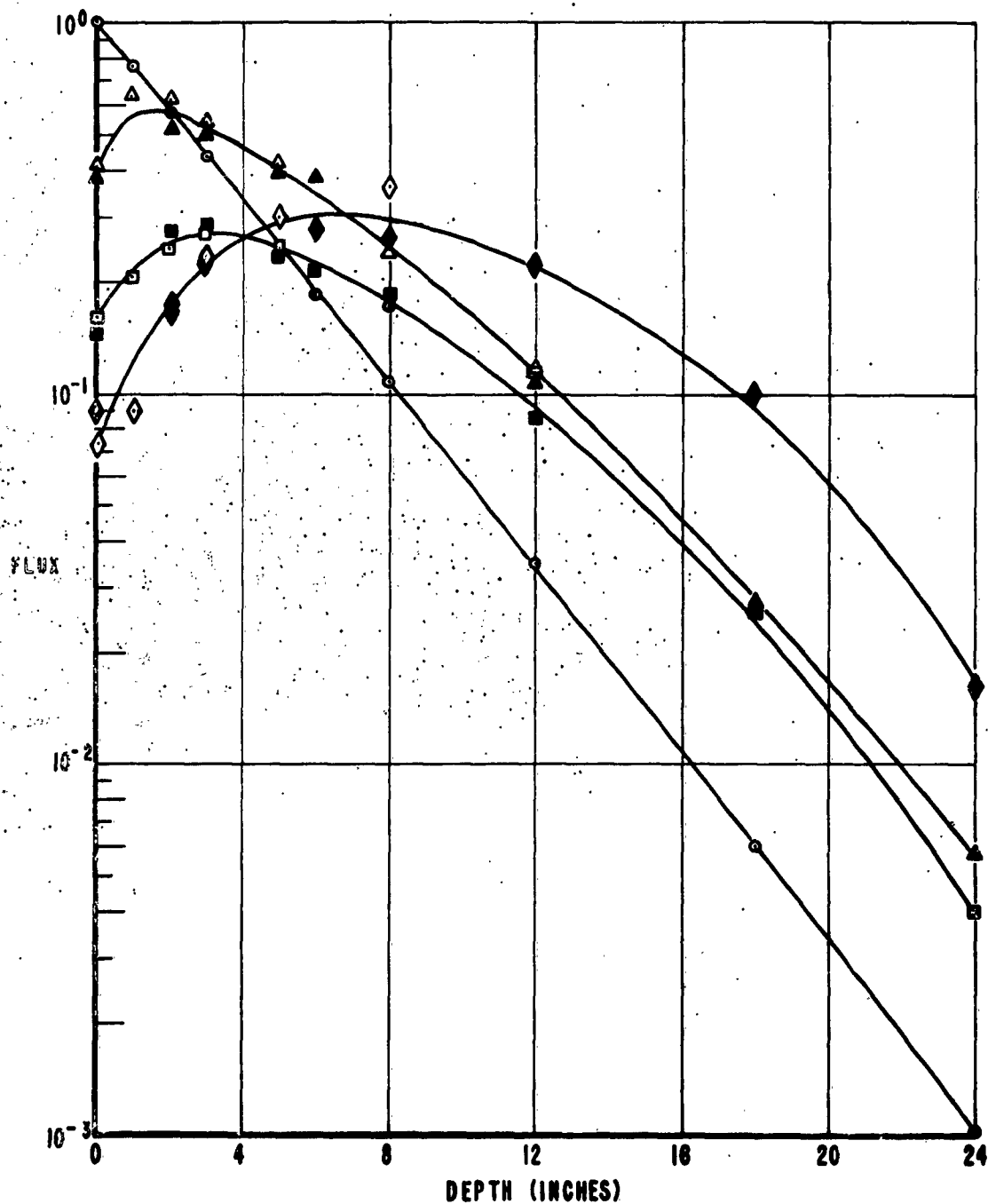


FIG. 4 - TOTAL FLUX VS. DEPTH
AND
TOTAL FLUX VS. THICKNESS

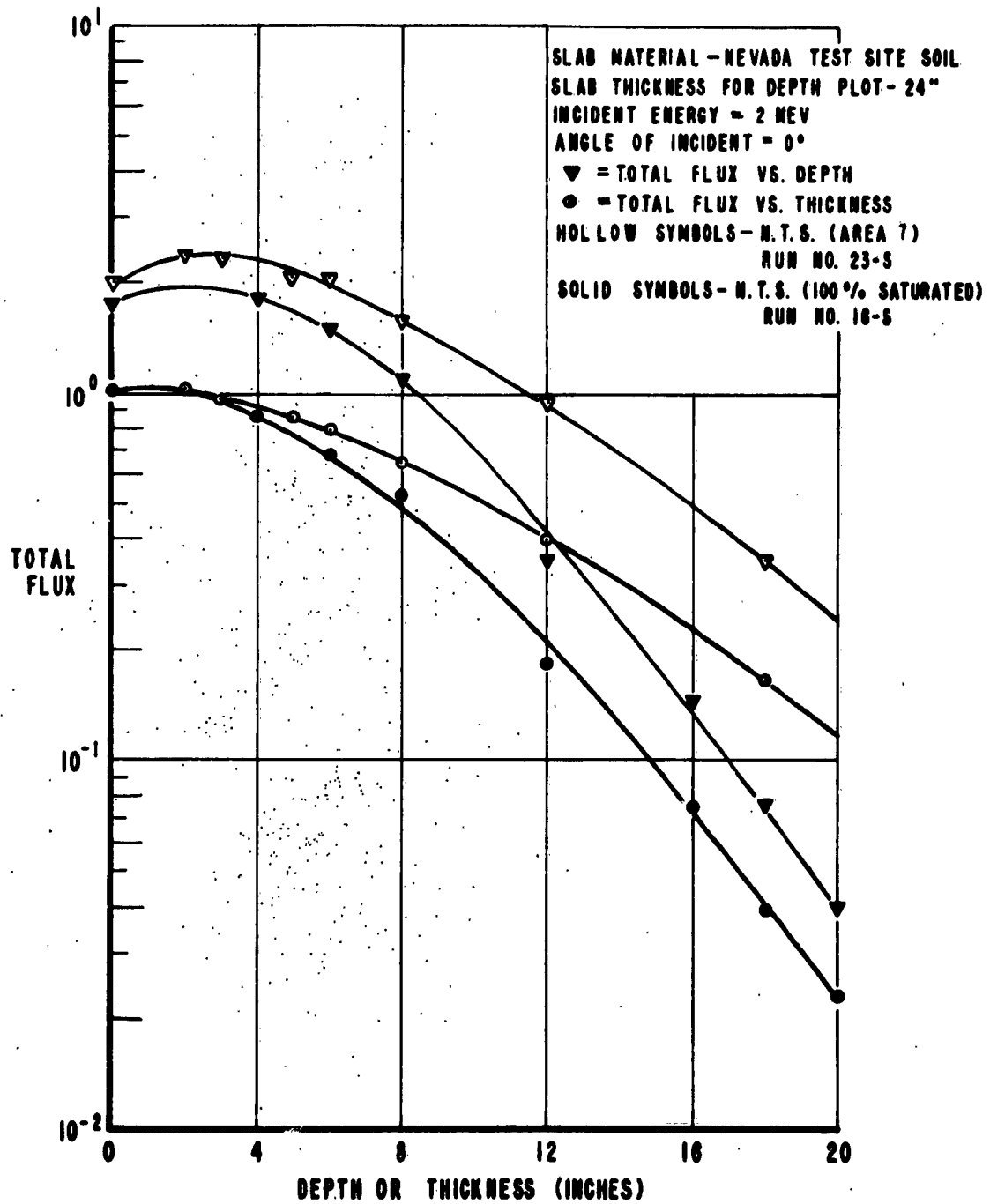


TABLE 1A
REFLECTION DATA FOR DRY NEVADA TEST SITE SOIL

θ_o (Deg) E_o (MEV)	NUMBER ALBEDO				NUMBER FLUX ALBEDO			
	0	30	45	70	0	30	45	70
0.1	.447	.476	.509	.641	.899	.821	.760	.497
0.25	.542	.581	.611	.713	1.035	.985	.839	.561
0.50	.574	.579	.634	.740	1.127	.978	.898	.560
1.0	.656	.683	.696	.776	1.312	1.124	1.012	.618
2.0	.516	.525	.584	.671	1.020	.869	.861	.496
3.0	.445	.477	.518	.616	.866	.771	.729	.456
5.0	.387	.403	.450	.555	.787	.681	.629	.422
14.0	.295	.292	.348	.479	.572	.498	.497	.369

	ENERGY ALBEDO				DOSE ALBEDO			
0.1	.132	.139	.164	.228	.583	.533	.497	.330
0.25	.206	.239	.244	.347	.596	.582	.490	.356
0.50	.214	.236	.264	.392	.620	.577	.528	.384
1.0	.342	.366	.381	.442	.831	.734	.673	.426
2.0	.244	.250	.278	.361	.708	.629	.607	.388
3.0	.207	.229	.243	.310	.593	.550	.507	.327
5.0	.175	.165	.202	.268	.519	.419	.412	.286
14.0	.0693	.0760	.0892	.156	.327	.284	.293	.239

TABLE 1B
REFLECTION DATA FOR 50% SATURATED NEVADA TEST SITE SOIL

E_o (MEV)	NUMBER ALBEDO				NUMBER FLUX ALBEDO			
θ_o (Deg)	0	30	45	70	0	30	45	70
0.1	.431	.459	.504	.612	.823	.810	.746	.475
0.25	.534	.551	.583	.669	1.003	.927	.783	.509
0.50	.530	.555	.614	.712	1.035	.938	.879	.557
1.0	.647	.666	.686	.754	1.291	1.075	.977	.586
2.0	.490	.509	.546	.656	.910	.830	.744	.494
3.0	.415	.450	.505	.623	.851	.780	.718	.454
5.0	.331	.381	.424	.558	.642	.670	.599	.426
14.0	.264	.306	.291	.436	.525	.534	.400	.347

E_o (MEV)	ENERGY ALBEDO				DOSE ALBEDO			
θ_o (Deg)	0	30	45	70	0	30	45	70
0.1	.117	.120	.157	.221	.536	.514	.477	.316
0.25	.212	.222	.248	.311	.589	.551	.472	.314
0.50	.180	.208	.261	.382	.546	.527	.532	.387
1.0	.317	.344	.359	.418	.806	.689	.617	.398
2.0	.220	.235	.272	.350	.634	.578	.532	.385
3.0	.188	.208	.227	.312	.572	.537	.495	.339
5.0	.142	.171	.196	.282	.406	.422	.397	.305
14.0	.0684	.0714	.0664	.144	.298	.295	.227	.228

TABLE 1C
REFLECTION DATA FOR 100% SATURATED NEVADA TEST SITE SOIL

θ E_0 (MEV) \ θ (Deg)	NUMBER ALBEDO				NUMBER FLUX ALBEDO			
	0	30	45	70	0	30	45	70
0.1	.396	.411	.448	.578	.746	.694	.651	.457
0.25	.467	.499	.536	.633	.902	.855	.813	.476
0.50	.480	.488	.560	.664	.915	.811	.828	.481
1.0	.584	.590	.594	.700	1.108	.996	.850	.566
2.0	.420	.429	.475	.621	.775	.741	.643	.490
3.0	.367	.395	.442	.572	.738	.707	.611	.418
5.0	.289	.332	.413	.509	.563	.567	.580	.405
14.0	.243	.253	.286	.399	.501	.451	.429	.295

	ENERGY ALBEDO				DOSE ALBEDO			
0.1	.0938	.109	.117	.192	.474	.447	.411	.298
0.25	.160	.170	.209	.262	.499	.470	.464	.282
0.50	.168	.183	.229	.310	.490	.453	.490	.306
1.0	.290	.293	.281	.362	.674	.624	.515	.366
2.0	.184	.183	.209	.310	.511	.493	.418	.368
3.0	.157	.180	.192	.262	.467	.489	.407	.296
5.0	.119	.142	.166	.240	.350	.362	.367	.277
14.0	.0604	.0688	.0797	.115	.276	.271	.256	.190

TABLE 2
ENERGY SETS AND FLUX TO DOSE CONVERSION FACTORS

ENERGY GROUP	SET 2		SET 2A		SET 2B	
	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)
1	.0001-.001	$.64 \times 10^{-9}$	.0001-.001	$.64 \times 10^{-9}$	.0001-.001	$.64 \times 10^{-9}$
2	.001-.025	.59	.001-.025	.59	.001-.025	.59
3	.025-.1	.81	.025-.1	.81	.025-.1	.81
4	.1-.25	1.3	.1-.25	1.3	.1-.25	1.3
5	.25-.5	2.0	.25-.5	2.0	.25-.5	2.0
6	.5-1.0	3.1	.5-1.0	3.1	.5-1.0	3.1
7	1.0-2.0	4.0	1.0-2.0	4.0	1.0-1.5	3.9
8	2.0-3.0	4.3	2.0-3.0	4.3	1.5-2.0	4.1
9	3.0-5.0	5.1	3.0-4.0	4.7	2.0-2.5	4.2
10	5.0-16.0	6.8	4.0-5.0	5.5	2.5-3.0	4.4

ENERGY GROUP	SET 2C		SET 2D		SET 2E	
	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)	Energy Interval (MEV)	Conversion Factor (Rads/Unit Flux)
1	.0001-.001	$.64 \times 10^{-9}$	.0001-.001	$.64 \times 10^{-9}$	.0001-.0005	$.65 \times 10^{-9}$
2	.001-.025	.59	.001-.025	.59	.0005-.001	.62
3	.025-.1	.81	.025-.0625	.71	.001-.013	.59
4	.1-.25	1.3	.0625-.1	.91	.013-.025	.59
5	.25-.375	1.8	.1-.175	1.2	.025-.0625	.71
6	.375-.5	2.2	.175-.25	1.4	.0625-.1	.91
7	.5-.75	2.8	.25-.375	1.8	.1-.175	1.2
8	.75-1.0	3.4	.375-.5	2.2	.175-.25	1.4
9	1.0-1.5	3.9	.5-.75	2.8	.25-.375	1.8
10	1.5-2.0	4.1	.75-1.0	3.4	.375-.5	2.2

TABLE 3
FLUX TO DOSE CONVERSION FACTORS FOR SOURCE ENERGIES

E_0 (MEV)	Conversion Factor (D_E) (Rads. per unit flux)
.1	1.1×10^{-9}
.25	1.7
.5	2.4
1.0	3.8
2.0	4.1
2.67	4.4
3.0	4.6
4.0	5.1
5.0	5.8
7.0	6.8
10.0	7.0
14.1	7.0*

* Extrapolated

TABLE 4

HISTOGRAM 0-2541

Sector	Cos θ_1	Cos θ_2	θ_1	θ_2	$\bar{\theta}$	Sec $\bar{\theta}$	Solid Angle
1	1.00000	.95833	0	16°35.9'	8°18'	1.0106	.26180
2	.95833	.91667	16°35.9'	23°33.4'	20° 5'	1.0647	.26180
3	.91667	.86667	23°33.4'	29°55.6'	26°45'	1.1198	.31416
4	.86667	.81667	29°55.6'	35°14.8'	32°35'	1.1868	.31416
5	.81667	.76667	35°14.8'	39°56.7'	37°36'	1.2622	.31416
6	.76667	.71667	39°56.7'	44°13.2'	42° 5'	1.3474	.31416
7	.71667	.66667	44°13.2'	48°11.4'	46°12'	1.4448	.31416
8	.66667	.58333	48°11.4'	54°18.9'	51°15'	1.5976	.52360
9	.58333	.50000	54°18.9'	60° 0'	57° 9'	1.8435	.52360
10	.50000	.41667	60° 0'	65°22.5'	62°41'	2.1791	.52360
11	.41667	.33333	65°22.5'	70°31.7'	67°57'	2.6637	.52360
12	.33333	.00000	70°31.7'	90°	80°16'	5.9150	2.09440

TABLE 5

HISTOGRAM $\theta \phi$

Sector	$\cos \theta_1$	$\cos \theta_2$	θ_1	θ_2	$\bar{\theta}$	Sec $\bar{\theta}$	Solid Angle	ϕ_1	ϕ_2
1	1.0	11/12	0	23°33.4'	11°47'	1.0215	$\pi/6$	0	π
2	11/12	2/3	23°33.4'	48°11.4'	35°52'	1.2340	$\pi/6$	2 $\pi/3$	π
3	11/12	2/3	23°33.4'	48°11.4'	35°52'	1.2340	$\pi/6$	$\pi/3$	2 $\pi/3$
4	11/12	2/3	23°33.4'	48°11.4'	35°52'	1.2340	$\pi/6$	0	$\pi/3$
5	2/3	1/3	48°11.4'	70°31.7'	59°22'	1.9625	$\pi/6$	3 $\pi/4$	π
6	2/3	1/3	48°11.4'	70°31.7'	59°22'	1.9625	$\pi/6$	$\pi/2$	3 $\pi/4$
7	2/3	1/3	48°11.4'	70°31.7'	59°22'	1.9625	$\pi/6$	$\pi/4$	$\pi/2$
8	2/3	1/3	48°11.4'	70°31.7'	59°22'	1.9625	$\pi/6$	0	$\pi/4$
9	1/3	0	70°31.7'	90°	80°16'	5.9150	$\pi/6$	3 $\pi/4$	π
10	1/3	0	70°31.7'	90°	80°16'	5.9150	$\pi/6$	$\pi/2$	3 $\pi/4$
11	1/3	0	70°31.7'	90°	80°16'	5.9150	$\pi/6$	$\pi/4$	$\pi/2$
12	1/3	0	70°31.7'	90°	80°16'	5.9150	$\pi/6$	0	$\pi/4$

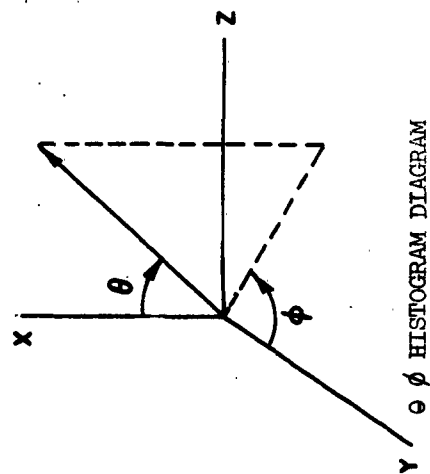
 $\theta \phi$ HISTOGRAM DIAGRAM

TABLE 6

ABBREVIATIONS USED ON MACHINE PRINTOUTS

MFP.	Mean Free Path
INC.	Incident
COS.	Cosine
EGY.	Energy
FLX.	Flux
NT.	Neutron
DSE.	Dose
NO.	Number
TRAN } TRANS }	Transmission
REFL.	Reflection
FACT.	Factor
B-POLY.	Polyethylene borated with 8% boron carbide by weight
STER.	Steradian
S } SCAT. }	Scattered
U } UNC. } UNSCAT. }	Unscattered
ABS.	Absorption
GRPS.	Groups
TTL.	Total
BDS.	Boundaries

TABLE 7
ATOMIC COMPOSITION OF NEVADA TEST SITE SOIL

<u>Element</u>	<u>10^{21} atoms/cm³</u>		
	<u>Dry Soil</u>	<u>50% sat. Soil</u>	<u>100% sat. Soil</u>
H	8.553	9.820	16.87
O	22.68	23.30	27.00
Al	2.014	1.830	1.976
Si	9.533	8.680	8.963

The densities corresponding to these compositions are 1.15, 1.12, and 1.25 grams per cubic centimeter for dry, 50% saturated, and 100% saturated soil, respectively. These values differ slightly from the corresponding densities of 1.17, 1.14, and 1.29 grams per cubic centimeter given in Reference 2. The differences are due to replacement of various minor constituent atoms by silicon atoms in the calculations.

REFERENCES

1. Allen, F., Futterer, A. and Wright, W. Neutron Transmission Versus Thickness for Some Common Materials. BRL 1174, September 1962.
2. Krey, P. W., Wilsey, E. F., McNeilly, J. J., Peterson, D. D. and Bloore, E. W. Soil Activation by Neutrons (U). WT 1410. May 1960. Sec. RD.
3. Goldstein, Herbert. Fundamental Aspects of Reactor Shielding. Addison-Wesley Publishing Co., Inc., 1959.
4. Allen, F., Futterer, A. and Wright, W. Neutron Reflection and Flux Versus Depth for Concrete. BRL 1189, January 1963.

MACHINE PRINTOUTS

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
605	.10000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.16663889	.04823401	.20299813	.08816856	.13040521
2	.31861159	.06255956	.41896745	.12358769	.27032994
3	.38826364	.08262187	.47020680	.13097707	.31713554
5	.45835455	.08468663	.40770000	.13222504	.30751656
8	.37990449	.08685671	.37269795	.08531271	.15967859
12	.30175522	.04033303	.24216871	.04647931	.08923526
18	.17694632	.02129441	.10095702	.00970521	.04304854
24	.02503046	.00333795	.00237823	.00268359	

INCHES	6	7	8	9	10
1	.26223670				
2	.45045329				
3	.38217600				
5	.29994868				
8	.15498567				
12	.09943450				
18	.00764260				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01645992	.00100307	.09329517	.05102926	.12696318
2	.03485441	.02017659	.12004020	.05436938	.19943326
3	.08255806	.03286269	.15040305	.07394455	.18349900
5	.10944635	.04313081	.14305672	.06524319	.13331535
8	.12347173	.02048296	.12379231	.02811259	.07284256
12	.06772818	.01026565	.05431065	.00495359	.02587509
18	.02074083	.00333795	.00237823	.00268359	
24					

INCHES	6	7	8	9	10
1	.25869744				
2	.25938347				
3	.23298923				
5	.14240886				
8	.06798257				
12	.00764260				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	1.09999999	1.00000000	1.87171432
2	.86399999	1.13544803	1.09662053	.58800000	2.23250952
3	.73899999	1.03425730	.92501667	.34600000	2.11738092
5	.64099999	.95925658	.79375680	.20300000	1.89343147
8	.46099999	.70660128	.53750287	.07000001	1.30943612
12	.26799999	.45068473	.31758186	.01400000	.83340603
18	.10800000	.17177576	.11268663	.00100001	.36059412
24	.01500000	.02914060	.01848790		.03343022

RUN NUMBER 605	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 12.739678
INC. ENERGY .100000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 1.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1				.093000	.166639	.098468
2				.025000	.048234	.027186
3				.113000	.202998	.108881
4				.036000	.088169	.047290
5				.062000	.130405	.084171
6				.118000	.262237	.216941
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.038000	.145149	.090188
2				.030000	.114591	.078564
3				.038000	.120957	.087166
4				.045000	.143239	.110000
5				.031000	.098676	.078016
6				.044000	.140056	.117984
7				.027000	.085943	.076551
8				.041000	.078304	.080440
9				.038000	.072574	.087956
10				.033000	.063025	.085430
11				.030000	.057296	.103966
12				.052000	.024828	.097332

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.447000	.898681	.582938	.Q13153	.868462	.001000	.552000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
1102.202618	.Q02942

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
606	.10000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.20513351	.05260452	.20448999	.07271996	.14067151
2	.34503927	.08221399	.34823636	.14523630	.36357300
3	.42694225	.11709950	.48732188	.15456672	.35161739
5	.51285510	.09732099	.45750109	.15170773	.29007608
8	.39976802	.06684903	.36064721	.11051329	.21695464
12	.27002877	.06504304	.14635179	.03756403	.04176217
18	.14732224	.02729846	.07475258	.01381036	.01575468
24	.02184419		.00231400	.00131315	.00132101
INCHES	6	7	8	9	10
1	.27213149				
2	.39036765				
3	.37445305				
5	.32587327				
8	.11997361				
12	.03658378				
18	.00328300				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.02477534	.00239752	.08582564	.04492943	.18727243
2	.03988917	.01802066	.12531280	.09627645	.19382177
3	.08206620	.02491717	.16027188	.08964477	.18224289
5	.10957758	.02354760	.17077291	.07072953	.18108836
8	.11792873	.03818779	.09117057	.03480949	.03844084
12	.05737859	.01253710	.04275728	.01381036	.01123423
18	.01013750			.00131315	.00132101
24					
INCHES	6	7	8	9	10
1	.21323897				
2	.27007933				
3	.24868541				
5	.09978753				
8	.03272090				
12	.00328300				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.15469441	1.27016384	1.15469441	2.08224207
2	.84799999	1.18428370	1.13541152	.62584437	2.30051093
3	.71999999	1.08172564	.95361837	.33832545	2.25032626
5	.63299999	.97142472	.79555762	.18359640	2.01893068
8	.42499999	.70861945	.51718220	.05311595	1.32782174
12	.22399999	.36134118	.24473504	.00808286	.60541644
18	.08600000	.14100056	.08970720		.28222132
24	.00700000	.01277166	.00832682		.02679236

RUN NUMBER 606	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 14.710436
INC. ENERGY .100000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 1.270164

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1				.118000	.177652	.104976
2				.030000	.045557	.025678
3				.106000	.177094	.094987
4				.035000	.062978	.033779
5				.068000	.121826	.078633
6				.119000	.235674	.194967
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.074000	.141329	.079424
2				.060000	.114591	.074553
3				.055000	.105042	.071324
4				.080000	.152788	.103721
5				.035000	.066845	.071441
6				.038000	.072574	.078198
7				.039000	.074484	.083156
8				.038000	.072574	.082359
9				.018000	.034377	.121758
10				.013000	.024828	.089295
11				.012000	.022918	.075954
12				.014000	.026738	.086805

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.476000	.820781	.533019	.013875	.861246	.001000	.523000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
1102.205236	.002915

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
607	.10000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
	.15412552	.04505802	.28804401	.08675252	.16211399
1	.27536272	.06443428	.45712140	.19879787	.36421739
2	.43510648	.09308406	.54812027	.19644078	.31541894
3	.46426526	.07038427	.45509701	.16930646	.32335452
5	.38286472	.08765651	.32701938	.08930315	.19478293
8	.22262811	.04764773	.12963662	.03598349	.06531064
12	.10030380	.01970167	.07857031	.00564688	.00562460
18	.02388650	.00211896	.01256761		.00142271
24	.00334217				

INCHES	6	7	8	9	10
	.33850600				
1	.42799655				
2	.42152258				
3	.30601327				
5	.09376258				
8	.02434447				
12	.00303311				
18	.00114666				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
	.00695991	.00558532	.08244786	.07414181	.22282900
1	.04012478	.02374414	.17238702	.11075971	.21984986
2	.10364711	.01774005	.20243584	.09960907	.16935948
3	.11709556	.01972739	.17863033	.06519566	.15711169
5	.09401593	.03015880	.08614449	.02812157	.05364258
8	.04407612	.00445086	.05093876	.00564688	.00562460
12	.00913572		.01126713		.00142271
18	.00334217				
24					

INCHES	6	7	8	9	10
	.28232598				
1	.31405480				
2	.23942806				
3	.08570593				
5	.02283504				
8	.00303311				
12	.00114666				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	1.55562783	1.41420712	2.44314667
1	.80499999	1.34179564	1.28263600	.66750575	2.45543598
2	.67999999	1.19628849	1.02878449	.31536820	2.32506131
3	.57699999	.98071136	.77921293	.14849175	1.93691254
5	.38799999	.65599332	.47044929	.03252675	1.20791603
8	.19800000	.31774683	.21015047	.00282841	.52837949
12	.07100000	.11377034	.07157569		.21288038
18	.01000000	.02297223	.01480364		.04114245
24	.00200000	.00334217	.00206183		.00334217

RUN NUMBER 607	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 8φ	SLANT MFP 18.016543
INC. ENERGY .100000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 1.555628

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.002260	.001336	.084000	.108984	.064399
2				.026000	.031861	.017958
3				.147000	.203679	.109246
4				.036000	.061344	.032903
5				.067000	.114632	.073990
6				.149000	.239361	.198017
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.076000	.145149	.064799
2				.064000	.122231	.069462
3				.062000	.118411	.064842
4	.001000	.001910	.000985	.068000	.129870	.075765
5				.039000	.074484	.068306
6				.040000	.076394	.068498
7				.041000	.078304	.069077
8	.001000	.001910	.001566	.046000	.087853	.078208
9				.015000	.028648	.087796
10				.018000	.034377	.099415
11				.023000	.043927	.112850
12				.017000	.032468	.089249

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.002000	.001336		.002000	.002260	.001336	

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.509000	.759860	.496513	.016363	.836363	.001000	.488000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
1102.205236	.003215

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
608	.10000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.19469851	.03383353	.30885552	.14266199	.28205750
2	.29554133	.10370986	.43879322	.17792065	.41807593
3	.30744279	.08251019	.38383342	.16289804	.30939064
5	.37014519	.06373921	.39214662	.15129565	.20082252
8	.29922221	.05646668	.24555392	.06910384	.07687636
12	.18203386	.03760717	.10578248	.02751216	.02198088
18	.03947190	.01884885	.04179344	.00635826	.00207508
24	.01035479		.00104660		

INCHES	6	7	8	9	10
1	.49072049				
2	.59887121				
3	.29536579				
5	.14216614				
8	.04929032				
12	.01092211				
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.02437073	.01438933	.07692677	.08933621	.21028860
2	.04251401	.02698702	.14554289	.09636785	.20547475
3	.08891903	.01706041	.14541003	.10852168	.16307556
5	.10542996	.03485600	.14955291	.05391929	.05913024
8	.07772728	.01742099	.06462148	.02016120	.02198088
12	.02176505	.00981788	.02438920	.00635826	.00207508
18	.01035479		.00104660		
24					

INCHES	6	7	8	9	10
1	.43181859				
2	.22659922				
3	.11862090				
5	.04821452				
8	.00785585				
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	3.21618617	2.92380562	4.32954241
1	.64099999	1.46697702	1.39404682	.61984678	2.65275898
2	.48799999	.87213319	.70355514	.12864747	1.67008831
3	.39799999	.66792186	.48324961	.02631424	1.34662958
5	.26399999	.45110291	.29973038		.79651333
8	.12200000	.20976769	.13468667		.38583866
12	.03700000	.06440548	.04041979		.10854754
18	.00800000	.01140140	.00718557		.01140140
24					

RUN NUMBER 608	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 00	SLANT MFP 37.248343
INC. ENERGY .100000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 3.216186

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.099000	.066591	.039349
2				.019000	.011572	.006522
3				.146000	.105635	.056659
4				.068000	.048793	.026171
5				.119000	.096469	.062266
6				.190000	.167836	.138846
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.079000	.150879	.032920
2				.070000	.133690	.035855
3				.062000	.118411	.032836
4				.079000	.150879	.040552
5				.045000	.085943	.038225
6				.060000	.114591	.052990
7				.056000	.106952	.044867
8				.083000	.158518	.068967
9				.016000	.030558	.045030
10				.018000	.034377	.046224
11				.020000	.038197	.046119
12				.053000	.101222	.145311

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.641000	.496896	.329814	.022762	.772373	.001000	.358000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.205236	.003551

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
609	.25000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.14232271	.02883862	.15013142	.07098048	.10810030
2	.20452989	.04685057	.35475543	.11958142	.24014619
3	.28461594	.09127361	.37838185	.12449709	.27764465
5	.37265591	.08590851	.42184162	.13222799	.22083246
8	.37072847	.07049241	.33292134	.07999209	.10405866
12	.17355827	.01531754	.14819130	.04078027	.06078767
18	.09123586	.02618161	.05848088	.01568537	.01698180
24	.04965386	.00734571	.01390014	.00100127	.00929525
	.00217574				
INCHES	6	7	8	9	10
1	.04894842	.13928622	.34624441		
2	.14051696	.24835553	.52483503		
3	.13783844	.22290936	.45193604		
5	.14948641	.20979210	.37744025		
8	.08482767	.10669295	.12473531		
12	.02579004	.03283040	.04414365		
18	.00240021	.00429651	.00525646		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00410787	.00176084	.03196581	.02746321	.04852291
2	.01038135	.01471516	.06345140	.03843583	.11105148
3	.06404206	.01935306	.11342687	.04434214	.09102801
5	.11397688	.01568516	.14322435	.03573144	.06033680
8	.07401423	.01312219	.08119061	.01511932	.04378617
12	.05917330	.01694577	.03832420	.01150271	.01414942
18	.01398852	.00520171	.00474152	.00100127	.00314802
24	.00217574				
INCHES	6	7	8	9	10
1	.03357201	.07906557	.27175191		
2	.04739087	.10201261	.29151528		
3	.07960916	.09890726	.25638304		
5	.05812534	.07901809	.08929915		
8	.02245416	.02185209	.02476240		
12	.00240021	.00247578	.00322596		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	1.58750000	1.00000000	2.01711505
1	.81599999	1.03321014	1.46669369	.53500000	2.41457101
2	.67799999	.96495400	1.21878362	.28599999	2.25509699
3	.58399999	.92009339	1.03482047	.15300000	2.12318523
5	.39299999	.63839722	.58759964	.04300000	1.31744890
8	.19499999	.30230117	.23801348	.00599999	.54739916
12	.08900000	.14819735	.09839652		.22051868
18	.02000000	.02808105	.01768664		.08119623
24	.00200000	.00217574	.00128041		.00217574

RUN NUMBER 609	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 15.001853
INC. ENERGY .250000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 1.700000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.002130	.000815	.075000	.142323	.054417
2				.019000	.028839	.010518
3				.084000	.150131	.052104
4				.036000	.070980	.024634
5				.060000	.108100	.045148
6				.030000	.048948	.026202
7				.065000	.139286	.098320
8				.173000	.346244	.285142
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.003820	.001476	.051000	.194805	.107336
2				.046000	.175707	.099542
3	.001000	.003183	.001363	.037000	.117774	.072064
4				.041000	.130507	.082420
5				.034000	.108225	.069932
6				.049000	.155971	.118197
7				.042000	.133690	.118301
8				.059000	.112681	.105320
9				.051000	.097403	.104796
10				.044000	.084034	.096259
11				.040000	.076394	.131611
12				.048000	.022918	.080307

(S+U) NO. TRAN.FACT. .002000	(S+U) DOSE TRAN. FACT. .000815	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .002000	SCAT.NO.FLX TRAN. FACT. .002130	SCAT. DOSE TRAN. FACT. .000815	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .542000	NO. FLUX REFL. FACT. 1.034853	DOSE REFL. FACT. .596486	ENERGY REFL. FACT. Q20623	ENERGY ABS. FACTOR .793758	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .455000
		MEAN ENERGY SCAT.TR.NT.		MEAN ENERGY REFL. NT.		
1702.202618				Q09513		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
610	.25000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.11578950	.03061152	.18519651	.08563100	.08455600
1	.23008514	.03854144	.31972132	.14404331	.23020590
2	.26225086	.06624520	.29684283	.15571839	.21819778
3	.30181424	.07310228	.33689499	.12884238	.18622143
5	.36647995	.05214007	.29885214	.06404295	.10486847
8	.20268842	.02781803	.13639455	.03198148	.05285125
12	.10323669	.01264115	.06236112	.01468900	.00605993
18	.01369648	.00554650	.00652815	.00107228	.00916618
24			.00202903		
INCHES	6	7	8	9	10
	.06077502	.15323252	.42148649		
1	.18347798	.26665420	.59840475		
2	.16114599	.24836401	.46696936		
3	.17849201	.19162619	.36540820		
5	.08492159	.09737470	.08718378		
8	.03329754	.02331044	.03359014		
12	.00467658	.01422176	.00241049		
18	.00147399				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
	.01240860	.00286686	.02778450	.01369836	.05249267
1	.02646240	.00106854	.05768143	.02616439	.07272237
2	.05846037	.02053183	.09510547	.06452170	.09228445
3	.09535346	.02058430	.13906249	.03009965	.05222045
5	.08264598	.02051409	.07296911	.01830852	.03309970
8	.04379212	.00647223	.03481728	.01213954	.00605993
12	.00849896	.00554650		.00107228	.00301895
18			.00202903		
24					
INCHES	6	7	8	9	10
	.05743099	.09799175	.30238012		
1	.08761769	.11765061	.30294023		
2	.08691477	.11407953	.23297547		
3	.06061069	.06742913	.07244874		
5	.03121353	.01645242	.02717232		
8		.00595996	.00241049		
12					
18	.00147399				
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	1.83307737	1.15469441	2.26148789
1	.78699999	1.12823532	1.59454214	.56118149	2.57231554
2	.62999999	.96481555	1.23542495	.27250788	2.14824230
3	.53299999	.89650875	.99117679	.13163516	1.89403689
5	.36299999	.56898567	.51281713	.03117676	1.18704040
8	.19100000	.30583974	.24078284	.00346409	.54539592
12	.06700000	.11165155	.07428725		.22029672
18	.01300000	.01961068	.01261845		.03748358
24	.00100000	.00202903	.00121742		.00202903

RUN NUMBER 610	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MF/P 17.322556
INC. ENERGY .250000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 1.962980

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.067000	.100277	.038341
2				.012000	.026510	.009669
3	.001000	.001700	.000590	.095000	.160386	.055663
4				.041000	.074159	.025738
5				.049000	.073228	.030583
6				.033000	.052633	.028174
7				.084000	.132704	.093673
8				.200000	.365020	.300605
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.092000	.175707	.082480
2				.065000	.124141	.082025
3				.071000	.135600	.081149
4				.091000	.173797	.114009
5	.001000	.001910	.001126	.047000	.089763	.090543
6				.051000	.097403	.093445
7				.051000	.097403	.091994
8				.050000	.095493	.101751
9				.018000	.034377	.118782
10				.015000	.028648	.087302
11				.015000	.028648	.084827
12				.015000	.028648	.084079

(S+U) NO. TRAN.FACT. .001000	(S+U) DOSE TRAN. FACT. .000590	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT.NO.FLX TRAN. FACT. .001700	SCAT. DOSE TRAN. FACT. .000590	SCAT. EGY. TRAN. FACT. .000004
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NUMBER REFL. FACT. .581000	NO. FLUX REFL. FACT. .984917	DOSE REFL. FACT. .582446	ENERGY REFL. FACT. 023915	ENERGY ABS. FACTOR .760799	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .417000
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1702.205236	MEAN ENERGY SCAT.TR.NT. 000964	MEAN ENERGY REFL. NT. 010291
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
611	.25000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.12578752	.04221652	.19296600	.06713000	.11307151
2	.24147571	.05902070	.32554470	.13516621	.23976307
3	.25106998	.04885992	.32469032	.15410247	.26982414
5	.26110985	.07622351	.34994832	.13167656	.20573514
8	.31232107	.06145685	.25594598	.07375911	.12422469
12	.20109981	.02879589	.16049879	.05364033	.07066252
18	.07555986	.01907035	.05602946	.01156225	.00482255
24	.01942473	.00355171	.01040651		.00225541
	.00449029		.00337982		
INCHES	6	7	8	9	10
1	.07556153	.14984047	.42023101		
2	.15380969	.26367738	.64554867		
3	.14935703	.24217104	.49084961		
5	.13152387	.21174756	.26317488		
8	.06843980	.08588228	.09407579		
12	.02130919	.02199534	.01028673		
18	.00746682	.00105989			
24	.00236006				

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00277587	.00342208	.03761569	.02144027	.05206375
2	.02004524	.00481298	.05454719	.06029488	.10246474
3	.05906553	.02264429	.11291105	.05257570	.09787213
5	.08970556	.02732636	.11434717	.04626527	.09124871
8	.09356951	.01502613	.07594798	.03112509	.05108263
12	.02700521	.01100459	.03728395	.01001466	.00482255
18	.00897697	.00107783	.01040651		.00225541
24	.00449029		.00337982		
INCHES	6	7	8	9	10
1	.04872760	.12198282	.39437460		
2	.07565779	.14017598	.32433687		
3	.09058872	.11294291	.19750997		
5	.04422869	.07349042	.07078796		
8	.01922518	.01956757	.01028673		
12	.00746682	.00105989			
18	.00236006				
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	2.24505380	1.41420712	2.54709572
1	.75999999	1.26647022	1.79799997	.58406754	2.64807368
2	.59799999	1.02275087	1.27232955	.24041522	2.17133973
3	.49599999	.84510481	.89618873	.09899451	1.73013421
5	.33699999	.57437063	.50150764	.01697049	1.09307607
8	.19100000	.31583082	.22489969		.56828860
12	.06800000	.09865767	.06426052		.17557117
18	.01500000	.02507678	.01640106		.03799842
24	.00400000	.00787012	.00483058		.00787012

RUN NUMBER 611	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0°	SLANT MFP 21.215727
INC. ENERGY .250000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 2.404152

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.002000	.005055	.001933	.082000	.088946	.034009
2				.022000	.029852	.010887
3	.002000	.002260	.000784	.098000	.136448	.047356
4				.040000	.047468	.016474
5				.056000	.079954	.033393
6				.039000	.053430	.028601
7				.061000	.105954	.074791
8				.213000	.297150	.244711
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.088000	.168067	.066979
2				.084000	.160428	.078609
3				.068000	.129870	.064209
4	.002000	.003820	.001216	.093000	.177616	.090304
5	.001000	.001910	.000920	.059000	.112681	.086120
6				.042000	.080214	.061737
7				.056000	.106952	.080975
8				.058000	.110772	.096113
9				.013000	.024828	.068181
10	.001000	.001910	.003054	.011000	.021008	.054319
11				.018000	.034377	.083452
12				.021000	.040107	.105255

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.004000	.002717		.004000	.007315	.002717	.000005

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.611000	.839201	.490221	.Q24387	.756076	.001000	.384000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.000305	.009978

1702.205236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
612	.25000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.10963500	.02308003	.18647754	.09005953	.15111700
2	.21405700	.03904709	.20476460	.15388987	.19955145
3	.24606051	.02782703	.31246304	.12577547	.18445894
5	.26414007	.06292419	.23672646	.09720521	.13920200
8	.23389106	.04287357	.18658234	.06139878	.06306436
12	.13463828	.02330602	.10919572	.02047408	.02566324
18	.05103357	.01110516	.03206635	.00814246	
24	.01449366	.00778483	.00452990		
	.00351678				
INCHES	6	7	8	9	10
1	.12026549	.18209601	.77628552		
2	.13899239	.26614969	.64289286		
3	.09885688	.18249288	.33616500		
5	.10861839	.12976297	.15123442		
8	.04784352	.06676632	.04602074		
12	.02203117	.00505961	.00593790		
18	.00273223				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00967244	.01480104	.02631783	.04002177	.04773510
2	.02936742	.00836162	.08610220	.05941717	.09454601
3	.05895849	.01224715	.17598168	.04333177	.07555504
5	.08119005	.01497605	.05654431	.03979422	.04996144
8	.05805704	.00857159	.06997330	.01929335	.01945004
12	.01939523	.00310403	.02665987	.00814246	
18	.01054506	.00396798	.00452990		
24	.00351678				
INCHES	6	7	8	9	10
1	.06174992	.13607529	.44242259		
2	.04556576	.11868997	.24528914		
3	.07350699	.10175544	.11945075		
5	.03102503	.05144821	.03708277		
8	.01546740	.00505961	.00593790		
12	.00273223				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	4.64154142	2.92380562	4.45251428
1	.56199999	1.24660487	1.72424573	.46780890	2.32715385
2	.42299999	.76043442	.84974159	.07309517	1.58719488
3	.34299999	.59248253	.57553638	.01169521	1.20150894
5	.23399999	.40202208	.32371136		.74844070
8	.11800000	.20181024	.13929912		.34630604
12	.04100000	.06003382	.03762031		.10507978
18	.00900000	.01904295	.01212915		.02680839
24	.00100000	.00351678	.00222699		.00351678

RUN NUMBER 612	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 43.862503
INC. ENERGY .250000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 4.970469

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.002023	.000773	.056000	.037497	.014337
2				.014000	.007894	.002879
3				.087000	.063779	.022135
4				.051000	.030802	.010690
5				.066000	.051685	.021586
6				.056000	.041133	.022018
7				.068000	.062280	.043963
8				.315000	.265505	.218651
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.086000	.164247	.033300
2				.076000	.145149	.038653
3				.079000	.150879	.037695
4				.083000	.158518	.041469
5				.047000	.089763	.036422
6				.065000	.124141	.054700
7				.063000	.120321	.042092
8				.089000	.169977	.070724
9				.024000	.045836	.066524
10	.001000	.001910	.001477	.024000	.045836	.060229
11				.033000	.063025	.086025
12				.044000	.084034	.112571

(S+U) NO. TRAN.FACT. .001000	(S+U) DOSE TRAN. FACT. .000774	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT.NO.FLX TRAN. FACT. .002023	SCAT. DOSE TRAN. FACT. .000774	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .713000	NO. FLUX REFL. FACT. .560576	DOSE REFL. FACT. .356260	ENERGY REFL. FACT. 034687	ENERGY ABS. FACTOR .653117	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .286000
1702.205236		MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT. 012162			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
613	.50000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.11226772	.02361681	.13651341	.03820740	.13424687
2	.18487652	.04066385	.21311405	.10440473	.16795154
3	.27758961	.05945410	.26014368	.08373144	.16965939
5	.32342819	.07095954	.31387829	.09845906	.19036371
8	.30791257	.05744837	.27538969	.05987226	.08989731
12	.32775288	.05321180	.16519654	.03924350	.06996406
18	.09874829	.02620402	.07869345	.00991133	.02253996
24	.02928441	.00648781	.03196633	.00107392	.01649071
	.00678611		.00329080		.00149844
INCHES	6	7	8	9	10
1	.06392720	.07966792	.06369339	.21363008	.26110451
2	.09490129	.11686089	.09660901	.32715722	.71684027
3	.13334510	.15319150	.12116454	.37001319	.60414684
5	.11112883	.17379842	.12493318	.37787535	.45309672
8	.08434371	.08919947	.09555204	.17726647	.19082433
12	.04519428	.08825406	.02171359	.06713205	.03508163
18	.00438598	.02138613	.00431082	.01577850	.00527741
24	.00234832	.00109008	.00110128	.00105651	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00190522	.00234436	.00889828	.03398258
2	.00907727	.00588350	.02918677	.01733194	.03244356
3	.03030318	.01794670	.03927536	.02149823	.05516178
5	.07192502	.01079373	.10308742	.02480051	.03909893
8	.08990925	.01748334	.08670718	.01569934	.03966509
12	.04336400	.00391427	.04448169	.00598432	.02129803
18	.00993406	.00371993	.01463236	.00107392	.01536892
24	.00678611		.00329080		.00149844
INCHES	6	7	8	9	10
1	.00925318	.02979758	.02264693	.06667497	.43961882
2	.03773204	.03673986	.03857459	.14463756	.42126014
3	.02850470	.06288108	.04016256	.18488469	.32588889
5	.04771051	.05072419	.05313294	.09878604	.13734228
8	.02849699	.06465093	.01079080	.04394325	.03134287
12	.00438598	.01587089	.00239839	.01296057	.00527741
18	.00234832	.00109008	.00110128	.00105651	
24				.00105651	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	2.40000000	1.00000000	2.04529301
1	.85899999	1.14512192	2.50090679	.53000000	2.59337937
2	.71499999	1.05386723	2.08636055	.28099999	2.51343938
3	.60999999	.95450717	1.69049908	.14800000	2.38592130
5	.42299999	.67840159	.92697447	.04100000	1.46870622
8	.25699999	.43468904	.44336016	.00599999	.91874440
12	.10400000	.15993556	.13621404		.28723589
18	.03000000	.05032538	.03684386		.09089939
24	.00600000	.01263187	.00939677		.01263187

RUN NUMBER 613	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 15.239972
INC. ENERGY .500000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 2.400000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.003000	.006440	.001744	.053000	.112268	.030406
2				.014000	.023617	.006101
3	.001000	.005915	.001454	.072000	.136513	.033560
4				.027000	.038207	.009393
5	.001000	.001445	.000427	.062000	.134247	.039715
6				.038000	.063927	.024239
7				.037000	.079668	.039834
8				.034000	.063693	.037154
9	.001000	.001065	.000799	.100000	.213630	.160223
10				.137000	.261104	.239346

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.053000	.202445	.112493
2	.001000	.003820	.003050	.052000	.198625	.114329
3				.058000	.184619	.109680
4				.055000	.175070	.114543
5				.036000	.114591	.076102
6				.050000	.159155	.108616
7	.001000	.003183	.001360	.025000	.079577	.066704
8	.001000	.001910	.000826	.058000	.110772	.107923
9				.049000	.093583	.094637
10	.001000	.001910	.001127	.041000	.078304	.084293
11	.001000	.001910	.001378	.033000	.063025	.094729
12	.001000	.000477	.000694	.064000	.030558	.100918

(S+U) NO. TRAN. FACT. .006000	(S+U) DOSE TRAN. FACT. .004424	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .006000	SCAT. NO. FLX TRAN. FACT. .014865	SCAT. DOSE TRAN. FACT. .004424	SCAT. EGY. TRAN. FACT. .000079
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NUMBER REFL. FACT. .574000	NO. FLUX REFL. FACT. 1.126875	DOSE REFL. FACT. .619970	ENERGY REFL. FACT. 021445	ENERGY ABS. FACTOR .784753	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .419000
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2402.202618	MEAN ENERGY SCAT. TR. NT. 006606	MEAN ENERGY REFL. NT. 018680
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
614	.50000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.10775600	.02915251	.12070901	.05691349	.06978651
2	.16070694	.07334793	.18377037	.06866070	.14894385
3	.23090227	.06440259	.26885682	.07821961	.15276231
5	.31823603	.06606691	.31597709	.08919287	.13524508
8	.28728840	.07197613	.29228301	.12682183	.11849315
12	.29817263	.04275594	.14458060	.05668487	.07726318
18	.07306948	.02135675	.05137331	.01166911	.02703280
24	.02675412	.00525555	.01461967	.00413047	.00812983
	.00214711	.00165083			
INCHES	6	7	8	9	10
1	.05996604	.07373254	.06937051	.19072249	.35127452
2	.09987906	.12305413	.13219964	.31799884	.77004715
3	.09888837	.17367611	.17379837	.35810245	.59774302
5	.07033440	.19018588	.14171074	.37054879	.42543068
8	.09310941	.07929309	.11196563	.18586614	.18618511
12	.05316898	.03810948	.05253575	.08919802	.02781319
18	.00595479	.00406264	.00101374	.02278840	.00370697
24		.00282725		.00115980	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00190155	.00657309	.00328396	.01342119
2	.00626070	.00591101	.02429280	.01522810	.04328930
3	.03543151	.01058574	.05709314	.02587472	.05321057
5	.05218970	.01577490	.08985771	.05322746	.05585698
8	.11726923	.02119644	.07171320	.02707834	.03696717
12	.04387465	.01326092	.02945947	.00961690	.01532297
18	.01969805	.00155304	.00867169	.00413047	.00625770
24	.00214711	.00165083			
INCHES	6	7	8	9	10
1	.02540033	.02366976	.02667898	.07694570	.46351281
2	.03528643	.05385958	.05659173	.13975313	.44742460
3	.04583380	.06666739	.05229877	.17012985	.33478623
5	.04379998	.05815084	.05101336	.12039624	.14667061
8	.03485930	.02350474	.03129842	.05403356	.02330183
12	.00595479	.00406264	.00101374	.01591498	.00370697
18		.00282725		.00115980	
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	2.77126658	1.15469441	2.24442157
1	.81399999	1.19564067	2.62983926	.55425332	2.63286191
2	.67999999	1.09347710	2.14546755	.26557972	2.46293164
3	.57399999	.97892812	1.67574312	.12701639	2.24994487
5	.42599999	.71580516	.96870846	.02886737	1.58214927
8	.26699999	.44353162	.43462541	.00230939	.88259203
12	.08900000	.14218803	.11887082		.22202799
18	.02500000	.04429800	.03151334		.06287669
24	.00300000	.00379794	.00240049		.00379794

RUN NUMBER 614	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 17.597511
INC. ENERGY .500000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 2.771267

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.001953	.000529	.058000	.093320	.025274
2	.001000	.001700	.000439	.019000	.025247	.006522
3				.060000	.104538	.025699
4				.033000	.049289	.012117
5				.042000	.060437	.017879
6				.032000	.051932	.019691
7				.042000	.063855	.031927
8				.036000	.060077	.035045
9				.087000	.165171	.123879
10				.170000	.304214	.278863

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000458	.095000	.181436	.087836
2				.086000	.164247	.091753
3				.061000	.116501	.070415
4	.001000	.001910	.000553	.087000	.166157	.105487
5	.001000	.001910	.000838	.038000	.072574	.075820
6				.045000	.085943	.076767
7				.048000	.091673	.086708
8				.055000	.105042	.109064
9				.019000	.036287	.103541
10				.017000	.032468	.105823
11				.015000	.028648	.108228
12				.013000	.024828	.080346

(S+U) NO. TRAN.FACT. .003000	(S+U) DOSE TRAN. FACT. .000968	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .003000	SCAT.NO.FLX TRAN. FACT. .003653	SCAT. DOSE TRAN. FACT. .000968	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT. .579000	NO. FLUX REFL. FACT. .978080	DOSE REFL. FACT. .576896	ENERGY REFL. FACT. Q23561	ENERGY ABS. FACTOR .764379	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .418000
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2402.205236	MEAN ENERGY SCAT.TR.NT. Q00018	MEAN ENERGY REFL. NT. Q20346
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
615	.50000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.12991452	.04363756	.11750653	.08226001	.06816348
2	.17684550	.04123255	.23380190	.11035549	.12703211
3	.20150344	.06131679	.26294431	.05703407	.15599634
5	.25908837	.03782891	.33138437	.10539058	.12441317
8	.27204752	.06517162	.21361662	.06537097	.10246164
12	.21613641	.03865637	.16989856	.05609369	.05885337
18	.11840550	.02976853	.04855703	.00515458	.01299442
24	.01340059	.00531330	.00901500		.01527910

INCHES	6	7	8	9	10
1	.08308252	.08486153	.07158349	.25086347	.42070002
2	.11565917	.12250467	.13332245	.33789115	.82369012
3	.11022400	.19995680	.15699509	.30870751	.59311849
5	.12100303	.16251054	.12353092	.26390374	.35390624
8	.08190573	.06897335	.07901586	.17275057	.12442534
12	.04411078	.04027966	.02606748	.08368669	.02632686
18	.01634787	.00314955	.00281284	.00923599	.00102224
24		.00129229	.00342107		

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00125698	.01916350	.01218700	.01635021
2	.00968238	.00245242	.04856957	.01380496	.03840505
3	.02346984	.00661756	.08987092	.03161372	.03367055
5	.09084172	.01525495	.09230988	.02835170	.04494241
8	.06545181	.01705551	.07895893	.02802939	.02916388
12	.05397146	.01539125	.03591740	.00366734	.00687398
18	.00836792	.00224934	.00317969		.00597840
24	.00116278				

INCHES	6	7	8	9	10
1	.01014942	.03885509	.02367128	.07293582	.49608175
2	.04048430	.04877684	.06567454	.10961563	.42388647
3	.03745085	.07854995	.05000619	.13915953	.28423238
5	.05351715	.05075225	.03329400	.09847197	.11089695
8	.02674870	.02816573	.01931838	.04740095	.02176309
12	.01145949	.00100246	.00281284	.00923599	.00102224
18		.00129229	.00136996		
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	3.39409710	1.41420712	2.70260052
1	.77599999	1.26623335	2.75584958	.57558231	2.79791740
2	.61399999	1.03611055	1.98374164	.23475840	2.34255522
3	.50299999	.86939337	1.44020594	.09475188	1.97771175
5	.35499999	.63418925	.79014301	.01555627	1.26129550
8	.20499999	.36205636	.35913175		.76010987
12	.08100000	.14135443	.10782598		.24744854
18	.01300000	.02243761	.01661383		.04772136
24	.00100000	.00116278	.00079790		.00116278

RUN NUMBER 615	HISTORIES 1000	ENERGY SET 2E	ANGLE SET $\theta\phi$	SLANT MFP 21.552477
INC. ENERGY .500000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 3.394097

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.001000	.000873	.000236	.065000	.091864	.024880
2				.018000	.030857	.007971
3				.066000	.083090	.020426
4				.036000	.058167	.014299
5				.045000	.048199	.014259
6				.038000	.058748	.022275
7				.042000	.060006	.030003
8				.034000	.050617	.029527
9				.123000	.177388	.133041
10				.182000	.297481	.272691

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.093000	.177616	.070257
2				.070000	.133690	.060188
3	.001000	.001910	.000451	.090000	.171887	.080241
4				.089000	.169977	.088157
5				.046000	.087853	.074551
6				.049000	.093583	.071404
7				.058000	.110772	.091436
8				.066000	.126050	.112241
9				.021000	.040107	.109004
10				.020000	.038197	.080813
11				.019000	.036287	.098054
12				.028000	.053476	.151074

(S+U) NO. TRAN. FACT. .001000	(S+U) DOSE TRAN. FACT. .000236	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT. NO. FLX TRAN. FACT. .000873	SCAT. DOSE TRAN. FACT. .000236	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .649000	NO. FLUX REFL. FACT. .956418	DOSE REFL. FACT. .569373	ENERGY REFL. FACT. .027131	ENERGY ABS. FACTOR .728682	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .350000
2402.205236		MEAN ENERGY SCAT. TR. NT. .000018	MEAN ENERGY REFL. NT. .020902			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
618	.50000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.09416251	.01286651	.09776249	.04836551	.09634201
2	.09261796	.03876251	.18054900	.05481653	.12343881
3	.20449632	.04253142	.15655691	.07764736	.12946558
5	.23611186	.05514595	.17966308	.07021591	.12310031
8	.18745759	.04081705	.11921486	.04305913	.06780089
12	.17427608	.02266820	.12537276	.01677117	.03266458
18	.07690378	.00528985	.05285105	.01377131	.02776158
24	.00860134	.00107783	.00449244		.00900620
	.00106423	.00154358		.00202903	
INCHES	6	7	8	9	10
1	.06368902	.10261550	.07772598	.26908401	.77939201
2	.08438981	.10992446	.18094360	.33215768	.82508034
3	.09096772	.10951980	.11268993	.24380387	.42536394
5	.07316992	.11656017	.13654139	.21288744	.18229410
8	.06341727	.05845664	.06146228	.10421025	.02704775
12	.02530322	.02698978	.01357691	.02692584	.00524511
18	.00108589	.00950954	.00311791	.00214634	.00110705
24		.00274049			

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.01611710	.00930456	.03013840
2	.02377519	.01419062	.02626505	.02872427	.04498598
3	.03662096	.00905074	.06471303	.02224164	.05815484
5	.06672161	.01764286	.06787699	.02475544	.04473270
8	.05850472	.01025511	.07180519	.01281951	.02923670
12	.04084455	.00528985	.02758857	.00730245	.01323586
18	.00860134	.00107783	.00201170		.00100620
24	.00106423	.00154358		.00202903	
INCHES	6	7	8	9	10
1	.02225958	.02939751	.06461833	.10421460	.56341473
2	.03876490	.06414012	.05982393	.12707802	.32466609
3	.03801489	.07262825	.08596720	.11348204	.14775765
5	.03342495	.04892140	.04504842	.07730474	.02561195
8	.01254272	.02581174	.00443629	.02265250	.00524511
12	.00108589	.00500679	.00176064	.00214634	.00110705
18		.00274049			
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	7.01713350	2.92380562	4.47159801
2	.57799999	1.29557849	2.74743279	.45611369	2.47879438
3	.44599999	.82258550	1.41267785	.07017134	1.66321418
5	.36699999	.65740266	.92943142	.00877143	1.39446153
8	.27099999	.45204106	.49431976		.77294369
12	.15700000	.25330958	.21617194		.46979364
18	.06400000	.10536799	.07342409		.19354429
24	.01200000	.01543755	.01132344		.02591829
	.00300000	.00463684	.00282176		.00463684

RUN NUMBER 616	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0°	SLANT MFP 44.558716
INC. ENERGY .500000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 7.017133

SLAB CONFIGURATION NEVADA TEST SITE (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.000349	.000095	.054000	.032205	.008722
2	.001000	.000671	.000173	.009000	.004401	.001137
3				.050000	.033437	.008220
4	.001000	.000671	.000165	.029000	.016542	.004067
5				.042000	.032951	.009748
6				.033000	.021783	.008259
7				.039000	.035097	.017548
8				.041000	.026584	.015507
9				.115000	.092032	.069024
10				.314000	.266568	.244354

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000181	.096000	.183346	.041264
2				.071000	.135600	.034825
3				.087000	.166157	.043134
4				.098000	.187166	.049841
5	.001000	.001910	.000315	.043000	.082124	.037956
6	.001000	.001910	.000331	.054000	.103132	.044493
7				.059000	.112681	.048040
8				.093000	.177616	.082614
9				.019000	.036287	.051307
10				.021000	.040107	.059839
11				.025000	.047746	.067358
12				.060000	.114591	.177651

(S+U) NO. TRAN.FACT. .003000	(S+U) DOSE TRAN. FACT. .000433	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .003000	SCAT.NO.FLX TRAN. FACT. .001692	SCAT. DOSE TRAN. FACT. .000433	SCAT. EGY. TRAN. FACT. 000004
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NUMBER REFL. FACT. .726000	NO. FLUX REFL. FACT. .561599	DOSE REFL. FACT. .386586	ENERGY REFL. FACT. Q38859	ENERGY ABS. FACTOR .611360	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .271000
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2402.205236	MEAN ENERGY SCAT.TR.NT. Q00612	MEAN ENERGY REFL. NT. Q26762
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
617	1.00000000	1.00000000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.07446020	.14119731	.03351477	.04079749	.04469099
2	.19000121	.18272318	.06981457	.05773591	.09053715
3	.19668783	.25462788	.09905410	.08150900	.08598365
5	.27985434	.23062803	.08313002	.03417718	.10392738
8	.25165677	.26871681	.05464065	.04890437	.07098557
12	.19120199	.19549026	.04769085	.03857545	.03467599
18	.13301951	.07421777	.03040343	.00434773	.01222566
24	.01948326	.02481070	.00452901		.00101210
	.00243381	.00689914			
INCHES	6	7	8	9	10
1	.02013321	.09299350	.04993819	.21078182	.70385449
2	.07327460	.10790559	.10363405	.31029834	.72906195
3	.08799396	.15078369	.11102580	.35198781	.59305789
5	.05540105	.13807292	.09089372	.35848571	.36319838
8	.04032855	.11084056	.08356005	.23632828	.22039687
12	.02287819	.03854850	.01720860	.09590035	.05014975
18	.01065348	.03178239	.00502317	.02643587	.01461198
24	.00215831	.00102477	.00237728	.00109599	.00226422

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00877613	.01330376	.00933436	.01699543
2	.00404820	.02504469	.00857792	.01313484	.02460417
3	.03121221	.03509525	.03679603	.01239021	.03688453
5	.04509549	.07292370	.02624448	.01134117	.02800759
8	.06630884	.07473693	.02913050	.01357315	.01515533
12	.06146841	.03030533	.01145799		.00637013
18	.01228427	.01382790	.00215729		.00101210
24	.00243381	.00689914			
INCHES	6	7	8	9	10
1	.01346306	.01878577	.01283186	.06380958	.30669648
2	.02992405	.04571981	.04489262	.11277725	.30507082
3	.03084679	.04329100	.03051513	.14307687	.26032813
5	.01808108	.04745160	.04003004	.10310365	.18108567
8	.01753615	.02568444	.00381977	.05875595	.03598882
12	.00818055	.01262909	.00277212	.01623143	.01360415
18			.00237728	.00109599	.00226422
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	3.79999999	1.00000000	2.29655636
1	.76499999	.96599644	3.32754297	.50200000	2.41698657
2	.60899999	.86579437	2.66055417	.25200001	2.26471162
3	.49999999	.78643615	2.11375017	.12600000	1.86376874
5	.36499999	.60436449	1.37076903	.03100000	1.41735848
8	.20799999	.34468988	.52510945	.00399999	.73631993
12	.10800000	.16301919	.20735189		.34272099
18	.02400000	.03501906	.03435890		.05875563
24	.00700000	.00933295	.00573042		.00933295

RUN NUMBER 617	HISTORIES 1000	ENERGY SET 20	ANGLE SET 2541	SLANT MFP 16.549650
INC. ENERGY 1.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 3.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.002412	.000406	.041000	.074460	.012541
2	.005000	.006827	.001060	.064000	.141197	.021923
3				.021000	.033515	.006262
4				.019000	.040797	.009770
5				.026000	.044691	.014113
6				.012000	.020133	.007417
7				.047000	.092993	.044050
8				.027000	.049938	.028912
9				.096000	.210782	.155313
10				.313000	.703854	.629765

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.044000	.168067	.090552
2	.001000	.003820	.000685	.048000	.183346	.124542
3				.063000	.200535	.143365
4	.002000	.006366	.001173	.055000	.175070	.126642
5	.001000	.003183	.000624	.054000	.171887	.136327
6	.002000	.006366	.001388	.043000	.136873	.119942
7				.046000	.146422	.134119
8				.063000	.120321	.121228
9	.001000	.001910	.000547	.070000	.133690	.161902
10				.041000	.078304	.109805
11				.047000	.089763	.164600
12				.092000	.043927	.178742

(S+U) NO. TRAN. FACT. .007000	(S+U) DOSE TRAN. FACT. .001466	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .007000	SCAT. NO. FLX TRAN. FACT. .009239	SCAT. DOSE TRAN. FACT. .001466	SCAT. EGY. TRAN. FACT. 000007
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NUMBER REFL. FACT. .666000	NO. FLUX REFL. FACT. 1.412362	DOSE REFL. FACT. .930064	ENERGY REFL. FACT. 035675	ENERGY ABS. FACTOR .643168	NUMBER ABS. FACTOR .004000	NO. CUTOFF FACTOR .323000
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3803.402618	MEAN ENERGY SCAT. TR. NT. 000987	MEAN ENERGY REFL. NT. 053566
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
618	1.00000000	.86603000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.07544302	.10703352	.05578602	.02786554	.04420654
2	.13218604	.21552871	.09162985	.05427755	.05464661
3	.17442074	.23314154	.08512559	.05546042	.11552464
5	.20314739	.22357561	.09879046	.06681366	.09973889
8	.26259927	.27163877	.06744295	.03774829	.07514723
12	.21088335	.19052212	.04208259	.02946344	.03976597
18	.11740327	.06944222	.01287384	.00610112	.00835009
24	.02518995	.01023899	.00928786	.00372630	
	.00423545	.00145862	.00239027	.00107516	.00368834

INCHES	6	7	8	9	10
1	.03893952	.06601451	.05131751	.19901254	.63199248
2	.07575323	.11541207	.08401579	.36019916	.82387685
3	.09668033	.11921751	.07952766	.31926102	.57287775
5	.05937536	.11833538	.09222109	.30694577	.40449474
8	.06150879	.07854514	.07134323	.14922170	.16898969
12	.02519205	.04964190	.01222623	.07329917	.03161990
18	.01433731	.01978115	.00295667	.02593377	.00939485
24	.00107250	.00105496	.00133367	.00435761	.00112627
			.00168322		

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1		.00905104	.01292654	.01124923	.01827821
2	.00707668	.01898428	.02060542	.01625911	.02650752
3	.01685712	.02070751	.02090392	.01741058	.03009014
5	.04841966	.08280663	.02945812	.01333211	.03657030
8	.06909961	.06080952	.01898158	.01896020	.01898166
12	.04671007	.03848968	.01058277	.00489628	.00129336
18	.01074293	.00611822	.00247884	.00372630	
24	.00423545	.00145862	.00239027	.00107516	.00368834

INCHES	6	7	8	9	10
1	.02314602	.02946944	.01414058	.08382177	.37076522
2	.02222873	.04513635	.02799520	.12487375	.34576745
3	.02985264	.06053410	.03283185	.14117870	.28381493
5	.02824121	.04592368	.03910828	.09747080	.14383069
8	.02152186	.03616953	.00259756	.04948930	.02835782
12	.00820119	.01822001	.00103777	.02094770	.00783710
18	.00107250	.00105496	.00133367	.00435761	.00112627
24			.00168322		

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	4.38783875	1.15469441	2.41634180
1	.73099999	1.09361522	3.70895562	.52076717	2.52829304
2	.56199999	.88983744	2.72058919	.23440296	2.08564017
3	.47099999	.75925867	2.10577076	.10507719	1.77851553
5	.35099999	.58594599	1.22345625	.02078449	1.26496957
8	.20399999	.32612335	.48172066	.00115470	.70585142
12	.09400000	.15821595	.19998384		.28657428
18	.02300000	.03201130	.03816713		.05738811
24	.00900000	.01453106	.01417301		.01453106

RUN NUMBER 618	HISTORIES 1000	ENERGY SET 2D	ANGLE SET 0°	SLANT MFP 19.109788
INC. ENERGY 1.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 4.387839

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003000	.004468	.000752	.041000	.065336	.011004
2	.001000	.001069	.000166	.070000	.092694	.014392
3	.002000	.001953	.000365	.026000	.048312	.009027
4	.001000	.000885	.000212	.015000	.024132	.005779
5	.001000	.005123	.001618	.021000	.038284	.012090
6				.019000	.033723	.012424
7				.037000	.057171	.027081
8	.001000	.001700	.000984	.026000	.044442	.025730
9				.110000	.172351	.126995
10				.318000	.547324	.489711

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.000720	.111000	.211994	.122315
2	.001000	.001910	.000317	.085000	.162338	.115286
3	.002000	.003820	.000725	.088000	.168067	.102578
4				.095000	.181436	.121591
5	.001000	.001910	.001879	.058000	.110772	.119118
6	.001000	.001910	.000547	.065000	.124141	.146008
7				.067000	.127960	.137594
8	.001000	.001910	.000547	.049000	.093583	.098438
9				.023000	.043927	.155401
10				.018000	.034377	.119537
11	.001000	.001910	.003089	.006000	.011459	.045312
12				.018000	.034377	.119100

(S+U) NO. TRAN. FACT. .009000	(S+U) DOSE TRAN. FACT. .004097	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .009000	SCAT.NO.FLX TRAN. FACT. .015197	SCAT. DOSE TRAN. FACT. .004097	SCAT. EGY. TRAN. FACT. 000070
NUMBER REFL. FACT. .683000	NO. FLUX REFL. FACT. 1.123770	DOSE REFL. FACT. .734233	ENERGY REFL. FACT. 036623	ENERGY ABS. FACTOR .633051	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR 308000
MEAN ENERGY SCAT.TR.NT. 007834			MEAN ENERGY REFL. NT. 053621			

3803.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
619	1.00000000	.70711000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.09125102	.09322150	.05182454	.04176603	.03995050
2	.18280307	.16654373	.08933120	.07999898	.06988869
3	.22544772	.24420555	.10231510	.05329239	.08108806
5	.18210486	.26204477	.09098870	.06223394	.09413348
8	.23045142	.26335247	.09891412	.04558825	.05417017
12	.22960931	.15500123	.03684679	.03861892	.03374655
18	.10990890	.09475381	.00827104	.00737752	.00493051
24	.04455473	.01278887	.00679983	.00167340	.00334963
			.00137453		.00108103

INCHES	6	7	8	9	10
1	.04240153	.08170600	.03837202	.24293098	.70839449
2	.06416450	.11947058	.09044924	.36356618	.92141799
3	.07179027	.10889561	.07814535	.35051712	.58473055
5	.05429957	.09802285	.06467034	.26773439	.31816092
8	.06256153	.09585203	.07348925	.21396561	.14681825
12	.01690221	.05335515	.02594868	.05225228	.02087231
18	.00485411	.01407448	.00721724	.03321390	.00265145
24	.00118789	.00467784		.00456701	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00484418	.00416907	.00680039	.01224277	.00746247
2	.00420907	.05109475	.02999879	.01602314	.01713497
3	.01632465	.04060435	.03525919	.03456719	.03721355
5	.03728288	.08011386	.02763627	.01265579	.02880815
8	.07165227	.05634770	.01625432	.01757953	.01653777
12	.04445720	.05557845	.00827104	.00147751	.00322509
18	.01334839	.00429222	.00464058		.00229203
24			.00137453	.00167340	.00108103

INCHES	6	7	8	9	10
1	.01023345	.03073424	.02400401	.13698185	.51547727
2	.02652854	.03901302	.02013332	.15887676	.38621566
3	.00966867	.04983725	.02340911	.14705871	.25826774
5	.00892745	.05773151	.02331671	.12635288	.11684838
8	.01072456	.02967802	.01955083	.04545478	.02087231
12	.00380758	.00708548	.00466250	.02717349	.00109434
18		.00229702		.00456701	
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.41420712	5.37398707	1.41420712	2.77739678
2	.72599999	1.28610579	4.39770701	.53315608	2.68079023
3	.53499999	.95004544	2.81838237	.20081742	2.10124513
5	.43199999	.72716340	1.90533257	.07495298	1.56934679
8	.31999999	.52957333	1.10006182	.00989945	1.29506256
12	.19400000	.30465209	.43375809		.66315349
18	.08500000	.15683269	.18017988		.28725296
24	.02400000	.03143725	.03344034		.07792579
	.00300000	.00412896	.00366989		.00412896

RUN NUMBER 619	HISTORIES 1000	ENERGY SET 2D	ANGLE SET 0°	SLANT MFP 23.404633
INC. ENERGY 1.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 5.373987

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.048000	.064524	.010867
2				.054000	.065918	.010235
3	.001000	.000873	.000163	.032000	.036646	.006847
4	.001000	.001388	.000332	.017000	.029533	.007072
5	.001000	.000722	.000228	.021000	.028249	.008921
6				.024000	.029982	.011046
7				.039000	.057775	.027367
8				.021000	.027133	.015709
9				.105000	.171779	.126574
10				.335000	.500913	.448185

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000436	.113000	.215814	.097608
2				.072000	.137510	.076694
3	.001000	.001910	.000311	.086000	.164247	.090578
4				.083000	.158518	.077110
5				.065000	.124141	.123881
6	.001000	.001910	.000635	.064000	.122231	.124976
7				.071000	.135600	.126755
8				.054000	.103132	.077640
9				.022000	.042017	.135272
10				.030000	.057296	.180636
11				.013000	.024828	.059217
12				.023000	.043927	.114629

(S+U) NO. TRAN.FACT. .003000	(S+U) DOSE TRAN. FACT. .000724	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .003000	SCAT.NO.FLX TRAN. FACT. .002983	SCAT. DOSE TRAN. FACT. .000724	SCAT. EGY. TRAN. FACT. .000021
NUMBER REFL. FACT. .696000	NO. FLUX REFL. FACT. 1.012453	DOSE REFL. FACT. .672823	ENERGY REFL. FACT. .038143	ENERGY ABS. FACTOR .618347	NUMBER ABS. FACTOR .002000	NO. CUTOFF FACTOR .299000

3803.405236	MEAN ENERGY SCAT.TR.NT. .007100	MEAN ENERGY REFL. NT. .054803
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RUN NUMBER	INC.ENERGY	CQS. THETA	CUTOFF EGY.	ENERGY SET
620	1.00000000	.34202000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08008354	.10618802	.06107703	.04224403	.05081205
2	.11953501	.14646517	.07681819	.06494414	.08710362
3	.18983380	.16519642	.06848859	.06859686	.08961227
5	.18866354	.18754038	.07777059	.05642708	.06136437
8	.17366659	.21086490	.07203245	.03343914	.04246346
12	.16478467	.13284478	.03083998	.02658260	.02825492
18	.08272817	.05758495	.01677517	.01072181	.00363952
24	.01184044	.00714582		.00223294	.00250527
	.00478733	.00229738			
INCHES	6	7	8	9	10
1	.04803604	.07496052	.05772099	.33773453	.95747850
2	.08087616	.11722288	.07790863	.31502395	.80262017
3	.06707940	.08440003	.06683350	.28409059	.49436350
5	.07247079	.10694242	.10010394	.23568909	.25318344
8	.03414727	.06247542	.03269664	.13329059	.09903975
12	.02544585	.04635598	.02018695	.06923013	.02656214
18	.00428497	.01155332	.00367987	.02135299	.00231924
24	.00272101	.00123803		.00453605	
				.00145918	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00157981	.02027394	.00792261	.00684446	.03054163
2	.00569037	.03742679	.02310169	.00777834	.03651279
3	.02371473	.04795149	.04128647	.01612665	.02312208
5	.03645147	.08009487	.03731100	.01743887	.02397046
8	.07276586	.05730110	.02158389	.00626267	.01765146
12	.04251315	.01955195	.00697493	.00787435	.00253591
18	.00815460	.00496908		.00223294	.00143092
24	.00478733	.00229738			
INCHES	6	7	8	9	10
1	.01662112	.04602844	.02265591	.12717077	.58223963
2	.01730382	.04658803	.03465159	.14547254	.39541335
3	.02178373	.04844833	.03957605	.15415557	.21416034
5	.01960528	.04157178	.02764923	.07536132	.08181516
8	.01321396	.02492622	.01492468	.05315834	.01403976
12	.00235524	.00891521	.00367987	.02035253	.00231924
18	.00123324	.00123803		.00453605	
24				.00145918	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	11.11046136	2.92380562	4.69112340
1	.54499999	1.25074447	4.09022715	.38886613	2.27738408
2	.41399999	.79964402	2.24593271	.04970470	1.62819966
3	.35299999	.63617306	1.50993497	.00584760	1.34600325
5	.25599999	.44126944	.79378594		.89411620
8	.16500000	.29582795	.41306264		.57108800
12	.07300000	.11707237	.14251064		.21464001
18	.01500000	.02379486	.02807778		.03221956
24	.00600000	.00854389	.00842041		.00854389

RUN NUMBER 620	HISTORIES 1000	ENERGY SET 20	ANGLE SET θφ	SLANT MFP 48.387960
INC. ENERGY 1.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 11.110461

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003000	.001515	.000255	.050000	.027390	.004613
2	.002000	.000844	.000131	.057000	.036318	.005639
3				.028000	.020890	.003903
4				.020000	.014448	.003460
5				.025000	.017379	.005488
6				.016000	.016429	.006053
7				.031000	.025638	.012144
8				.029000	.019742	.011429
9	.001000	.000422	.000311	.137000	.115512	.085114
10				.368000	.327477	.293006

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.105000	.200535	.047082
2	.002000	.003820	.000261	.086000	.164247	.045084
3	.002000	.003820	.000261	.075000	.143239	.035078
4	.001000	.001910	.000594	.074000	.141329	.030893
5	.001000	.001910	.000216	.068000	.129870	.057501
6				.079000	.150879	.068829
7				.065000	.124141	.057224
8				.059000	.112681	.051236
9				.032000	.061115	.098525
10				.037000	.070665	.111906
11				.028000	.053476	.066822
12				.053000	.101222	.152678

(S+U) NO. TRAN.FACT. .006000	(S+U) DOSE TRAN. FACT. .000697	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .006000	SCAT.NO.FLX TRAN. FACT. .002781	SCAT. DOSE TRAN. FACT. .000697	SCAT. EGY. TRAN. FACT. .000062
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NUMBER REFL. FACT. .761000	NO. FLUX REFL. FACT. .621223	DOSE REFL. FACT. .430849	ENERGY REFL. FACT. Q43778	ENERGY ABS. FACTOR .561585	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .232000
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3803.405236	MEAN ENERGY SCAT.TR.NT. Q10338	MEAN ENERGY REFL. NT. Q57527
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
821	2.00000000	1.00000000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.07375029	.10022361	.05382217	.04425579	.04932899
2	.09018185	.12191670	.09705878	.08552077	.05865316
3	.16974730	.19918587	.12324905	.08286697	.06982094
5	.23888901	.27082362	.17536652	.09785534	.07250688
8	.29991649	.26347908	.17318528	.15270601	.07923530
12	.36289584	.25157596	.13488602	.10730010	.08496329
18	.21611769	.22461921	.08851772	.06409601	.05459308
24	.11683918	.08555569	.02717009	.02568173	.01819754
	.00700588	.01272117	.00643935	.00323365	
INCHES	6	7	8	9	10
1	.01836799	.05417067	.07044237	.16018692	.40477102
2	.03290685	.10149975	.07876573	.20462116	.63162673
3	.04052860	.09439907	.09011148	.24656235	.61789190
5	.03986984	.13720660	.08815575	.27410948	.53947776
8	.04774723	.15178846	.09125336	.24737459	.41478569
12	.05196644	.12414594	.09074573	.17221824	.24485712
18	.02818703	.08224702	.04655428	.11393032	.11707542
24	.00574675	.03576180	.02148032	.04482967	.02898951
		.00804694	.00420990	.00372552	.00215973

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00121771		.01072665	.01800516	.00944742
2	.00236113	.00901694	.01158045	.01920716	.01367537
3	.00378341	.02257593	.01815429	.02682995	.01316268
5	.01958102	.04714932	.03242972	.03867388	.02696083
8	.04773426	.07903999	.03559655	.03128341	.03779998
12	.05452781	.05603214	.02482375	.02609442	.02454403
18	.03642357	.02820497	.01008519	.01006846	.00485682
24	.00700588	.01272117	.00643935	.00323365	
INCHES	6	7	8	9	10
1	.00344205	.02167628	.00607502	.02786490	.23693745
2	.00985786	.02428853	.02535065	.05233751	.30966707
3	.01047739	.03488433	.01918028	.11386666	.28465788
5	.01235209	.04728496	.04122441	.11875938	.24080267
8	.01264359	.04522931	.02929638	.09018291	.16864460
12	.01510505	.04445251	.02915804	.07411114	.09096213
18		.02088939	.00447364	.02281351	.02191143
24		.00804694	.00420990	.00372552	.00215973

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.29230769	1.00000000	1.95554032
1	.92200000	1.09339264	4.49916275	.75800001	2.26075148
2	.82699999	1.05134267	4.21861809	.57400001	2.30836355
3	.74499999	.98157281	3.79081047	.43399999	2.36826080
5	.61199999	.87421830	3.01375429	.24900000	2.17047149
8	.46199999	.68545100	1.99030756	.10800000	1.73355466
12	.28799999	.47481102	1.24293672	.03499999	1.07093779
18	.11100000	.16572699	.34939336	.00599999	.41625230
24	.03500000	.04854214	.08556173	.00100001	.04854214

RUN NUMBER 621	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 2541	SLANT MFP 6.672268
INC. ENERGY 2.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 4.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.005000	.007081	.001105	.035000	.073750	.011512
2	.007000	.015501	.002231	.045000	.100224	.014422
3	.005000	.006428	.001270	.030000	.053822	.010633
4	.003000	.003250	.001031	.025000	.044256	.014032
5				.027000	.049329	.021657
6				.010000	.018368	.009856
7	.006000	.007950	.005429	.030000	.054171	.036995
8	.003000	.004237	.003514	.033000	.070442	.058416
9	.003000	.003721	.003539	.076000	.160187	.152373
10	.002000	.002130	.002130	.184000	.404771	.404771

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.015279	.006402	.046000	.175707	.115345
2	.003000	.011459	.002242	.047000	.179526	.124386
3	.005000	.015915	.006938	.043000	.136873	.103021
4	.007000	.022282	.016014	.039000	.124141	.085164
5				.039000	.124141	.119571
6	.003000	.009549	.010565	.026000	.082760	.089408
7	.004000	.012732	.011677	.031000	.098676	.089051
8	.002000	.003820	.002560	.052000	.099312	.118423
9	.002000	.003820	.001202	.041000	.078304	.110322
10	.003000	.005730	.001847	.040000	.076394	.119057
11				.023000	.043927	.088295
12	.001000	.000477	.000406	.068000	.032468	.138854

(S+U) NO. TRAN.FACT. .035000	(S+U) DOSE TRAN. FACT. .021249	UNSCAT. NO. FACTOR .001000	SCAT. NO. TRAN. FACT. .034000	SCAT.NO.FLX TRAN. FACT. .050299	SCAT. DOSE TRAN. FACT. .020249	SCAT. EGY. TRAN. FACT. .000739
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NUMBER REFL. FACT. .495000	NO. FLUX REFL. FACT. 1.029320	DOSE REFL. FACT. .734667	ENERGY REFL. FACT. Q23863	ENERGY ABS. FACTOR .752972	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .469000
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4104.102618	MEAN ENERGY SCAT.TR.NT. Q43444	MEAN ENERGY REFL. NT. Q96418
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
622	2.00000000	.86603000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08234500	.09024801	.05098800	.03045654	.03493553
2	.13163046	.11758370	.09430184	.05877560	.05059162
3	.15092300	.19199671	.14700479	.13669473	.06584535
5	.25662037	.19785869	.17852148	.12382800	.09040582
8	.28266133	.29670600	.16398241	.15589309	.09060175
12	.33536654	.25105055	.12979797	.13033225	.12163696
18	.22867901	.18151803	.07198880	.05563745	.04418436
24	.08483861	.04592891	.03083984	.01770399	.01463989
	.00755516	.00269314	.00455534	.00306509	.00583730

INCHES	6	7	8	9	10
1	.01853103	.06833203	.07004601	.13691753	.42071702
2	.05648894	.13461759	.10418379	.28559921	.59184853
3	.05025243	.17324406	.13905381	.27591674	.55828555
5	.04201386	.14425868	.17413073	.31272957	.52053850
8	.07153153	.13658159	.10848688	.30766236	.40869942
12	.05741565	.13395573	.11168871	.15318656	.19883500
18	.01134438	.03700215	.05162113	.08285515	.08845027
24	.00688647	.01009516	.02179868	.03206826	.02925942
		.01125847		.00333523	.00764011

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00148942	.00294556	.01243281	.00265476
2		.01379213	.00974800	.01689507	.00696324
3	.00313754	.02061535	.02793951	.03435440	.02227939
5	.02275391	.04948646	.04117795	.04024285	.02941786
8	.05784904	.07252069	.03575779	.05474208	.03761171
12	.06486230	.05670541	.03891524	.02724073	.02275653
18	.03851461	.01158177	.00920898	.01385396	.00113621
24	.00755516	.00269314	.00455534	.00306509	.00583730

INCHES	6	7	8	9	10
1	.00614453	.01813605	.01414885	.05903350	.25818808
2	.00701334	.05133663	.03303914	.09576835	.30617013
3	.01098653	.04501634	.06384732	.13253252	.30542018
5	.01820302	.03742136	.05250034	.14471089	.24866903
8	.02291492	.04855408	.05248178	.09138651	.15484196
12	.00606245	.01696758	.02035477	.03738590	.07788355
18	.00235297	.00614045	.01546636	.02362743	.02247410
24		.01125847		.00333523	.00764011

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	.95630370	1.15469441	2.11495510
1	.90200000	1.21348170	5.05349351	.83830814	2.46392942
2	.79799999	1.14809527	4.59423469	.60736926	2.49658643
3	.72399999	1.10722236	4.18320216	.44109326	2.48199898
5	.60099999	.91667724	3.10997863	.23209358	2.25489994
8	.43999999	.71641734	2.00595611	.08775677	1.71102269
12	.23899999	.39338305	.89398882	.02424858	.87752931
18	.09300000	.14782092	.33732219	.00346409	.29752332
24	.03200000	.04593985	.10032350		.04593985

RUN NUMBER 622	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 8φ	SLANT MFP 7.704432
INC. ENERGY 2.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 4.734247

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.007000	.006561	.001024	.044000	.071313	.011132
2	.002000	.002768	.000398	.051000	.078157	.011247
3	.004000	.004091	.000808	.033000	.044157	.008724
4	.001000	.005123	.001624	.022000	.026376	.008363
5	.004000	.005352	.002350	.021000	.030255	.013283
6				.013000	.016048	.008611
7	.007000	.009820	.006707	.036000	.059178	.040414
8				.033000	.060662	.050305
9	.002000	.002768	.002633	.071000	.118575	.112791
10	.005000	.006421	.006421	.201000	.364354	.364354

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.009000	.017189	.005238	.080000	.152788	.077814
2	.003000	.005730	.002748	.076000	.145149	.108553
3	.004000	.007639	.004002	.078000	.148969	.102435
4	.005000	.009549	.005098	.067000	.127960	.099433
5	.002000	.003820	.004671	.041000	.078304	.097418
6	.004000	.007639	.007988	.045000	.085943	.114891
7	.002000	.003820	.003642	.039000	.074484	.086137
8	.002000	.003820	.005463	.046000	.087853	.105169
9	.001000	.001910	.003102	.015000	.028648	.124750
10				.016000	.030558	.117949
11				.008000	.015279	.060824
12				.014000	.026738	.106352

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.032000	.021966		.032000	.042905	.021966	.000847

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.525000	.869076	.629223	.Q25046	.741056	.001000	.442000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
4104.105236	.Q95415

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
623	2.00000000	.70711000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08913101	.09752901	.05644901	.08597250	.05655702
2	.11375609	.14720297	.12082911	.12637862	.08901434
3	.14165573	.17470249	.12434313	.09412050	.06727443
5	.20558460	.16751245	.10737230	.13105191	.13006900
8	.26095244	.21530522	.11548635	.12752150	.11010395
12	.24133529	.25431382	.12422819	.10859961	.07545437
18	.19604259	.14073627	.09422189	.05956542	.06414108
24	.06635925	.04897564	.03659401	.01154167	.00729045
	.01617085	.02203851	.00396804	.00892827	.00156262

INCHES	6	7	8	9	10
1	.04831854	.07040251	.06570654	.17537001	.47246804
2	.05553396	.13037441	.10439311	.31147919	.70470915
3	.05825478	.17537281	.13991109	.29739137	.67742634
5	.07490199	.14727800	.13624729	.26493450	.55603436
8	.05721526	.15743374	.07085939	.24063730	.42365924
12	.02816498	.12477696	.07993739	.15101201	.22333012
18	.02001204	.08683725	.04454286	.06766385	.07668632
24	.00662791	.01863529	.00990148	.02059776	.01340778
	.00118414	.00232908		.00265721	.00246533

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00727662	.01157290	.01846308
2		.00423659	.01735028	.02518958	.01629458
3	.00384750	.01869841	.02614393	.02156229	.04340619
5	.02851780	.02891214	.04166220	.03297241	.03897826
8	.06141307	.04756567	.05333374	.03822497	.03436561
12	.05924994	.06583211	.01905165	.02477453	.04016251
18	.02154223	.02424091	.03118693	.00527841	.00442931
24	.01617085	.02203851	.00396804	.00892827	.00156262

INCHES	6	7	8	9	10
1	.00100362	.01946111	.00451775	.04121611	.27366506
2	.01790273	.03152536	.03931194	.09508703	.32964239
3	.02512225	.04771309	.03337592	.10319111	.33166999
5	.03022181	.04364887	.02607998	.11301632	.29186811
8	.00711833	.03853505	.03627961	.07041283	.18221131
12	.00995325	.03966526	.02784768	.03760129	.06487402
18	.00525337	.01628575	.00509595	.01251141	.01236870
24	.00118414	.00232908		.00265721	.00246533

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.07021212	1.41420712	2.56981407
1	.85200000	1.33176606	5.53862213	.95458980	2.85826077
2	.74399999	1.22000471	4.86084629	.64346425	2.59391691
3	.64999999	1.08889227	4.09781464	.43416157	2.35514800
5	.52299999	.87386690	2.97254438	.19798899	1.97716339
8	.37899999	.63027110	1.77375355	.06081091	1.47196365
12	.24299999	.40032590	.88923279	.01131367	.86176324
18	.08100000	.13819298	.24183593		.23993126
24	.03100000	.06130405	.07088147		.06130405

RUN NUMBER 623	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 0φ	SLANT MFP 9.435971
INC. ENERGY 2.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 5.798249

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.005000	.011498	.001795	.043000	.063025	.009838
2	.010000	.016226	.002335	.052000	.068964	.009924
3	.003000	.002983	.000589	.031000	.039916	.007886
4	.005000	.007372	.002338	.038000	.060792	.019275
5	.001000	.001388	.000609	.030000	.039992	.017557
6	.001000	.000873	.000468	.018000	.034167	.018333
7	.002000	.001745	.001192	.036000	.049782	.033598
8				.030000	.046462	.038529
9	.002000	.001745	.001660	.093000	.124006	.117957
10	.002000	.001745	.001745	.213000	.334087	.334087

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.007639	.001346	.081000	.154698	.073562
2	.005000	.009549	.004117	.077000	.147059	.085527
3	.005000	.009549	.005040	.067000	.127960	.076406
4	.007000	.013369	.003622	.076000	.145149	.085714
5	.001000	.001910	.000381	.049000	.093583	.102283
6	.002000	.003820	.000937	.055000	.105042	.106827
7				.048000	.091673	.092412
8	.002000	.003820	.001545	.053000	.101222	.091882
9				.016000	.030558	.090460
10	.003000	.005730	.003643	.026000	.049656	.140551
11	.001000	.001910	.001149	.017000	.032468	.104835
12	.001000	.001910	.002533	.019000	.036287	.109553

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.031000	.012731		.031000	.045574	.012731	.000475

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.584000	.861192	.607385	.027814	.717102	.002000	.383000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
Q30636	Q95253

4104.105236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
624	2.00000000	.34202000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05426053	.07354152	.08291401	.08418903	.05302953
2	.09926516	.12079976	.09993524	.16250102	.09001598
3	.19477492	.14869963	.11805136	.18978182	.10387756
5	.19909787	.19113060	.17459967	.16883064	.09088395
8	.19369023	.15558157	.13482098	.11557384	.06652612
12	.21599103	.21126559	.10310837	.07348763	.05424132
18	.16302784	.08738963	.04896379	.04121100	.02627375
24	.02350626	.03127486	.00649027	.00118691	.01522324
	.00254383		.00592995		
INCHES	6	7	8	9	10
1	.02561002	.07165349	.06341301	.17930950	.76290853
2	.04233272	.12456773	.11771517	.34986406	.88984426
3	.08337611	.16138661	.16044479	.28165044	.69412416
5	.05895874	.18669102	.13319013	.30039364	.51235719
8	.04500335	.14574478	.08248765	.15357921	.25931246
12	.03298715	.06267317	.06699347	.08835311	.08035284
18	.00590347	.03107027	.01905578	.01862717	.02751323
24	.00329089	.00467240	.00277551	.01264680	.00471561
		.00338799			.00115561

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00790303	.00340332	.02256603	.01838347
2	.00281136	.01106544	.01480094	.03984205	.02915245
3	.01554886	.01789707	.03695809	.04270051	.02626536
5	.03814067	.03481291	.05152565	.04850427	.02919308
8	.05872037	.05658785	.03954976	.03947646	.02451797
12	.05522022	.04503193	.03009812	.02260990	.00801650
18	.01261065	.01284669	.00377536	.00118691	.00385328
24	.00254383		.00592995		
INCHES	6	7	8	9	10
1	.00393619	.02649220	.02647946	.11856165	.47549814
2	.01321703	.03302056	.06555676	.11488123	.47082563
3	.01514163	.05258150	.04570399	.14859575	.36511197
5	.01580512	.07548519	.03293056	.08562995	.21831863
8	.01707334	.02941766	.03554049	.04166927	.07338860
12	.00244517	.01531907	.01150009	.00802548	.02638401
18		.00193219		.00724684	.00471561
24		.00338799			.00115561

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	12.54987337	2.92380562	4.31638434
2	.74799999	2.00139319	8.27842100	1.29816969	3.39501079
3	.59599999	1.36823935	5.35577330	.57306590	2.70923330
5	.50699999	1.02287582	3.69277881	.25437111	2.27050454
8	.39199999	.68005072	2.01457193	.04970470	1.40202489
12	.25199999	.41886558	.91465410	.00292383	.99237750
18	.12900000	.22465050	.35776658		.46903596
24	.03400000	.04816752	.07987846		.10578274
	.00800000	.01301739	.01984127		.01301739

RUN NUMBER 624	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 0φ	SLANT MFP 19.508417
INC. ENERGY 2.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 11.987603

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.000844	.000132	.029000	.018558	.002897
2				.048000	.025153	.003619
3	.003000	.002014	.000398	.047000	.028358	.005602
4				.047000	.028794	.009130
5				.030000	.018137	.007963
6				.013000	.008759	.004700
7	.002000	.001093	.000747	.036000	.024507	.016736
8				.031000	.021688	.017986
9				.080000	.061327	.058336
10	.001000	.000422	.000422	.310000	.260930	.260930

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.102000	.194805	.043568
2	.002000	.003820	.000932	.078000	.148969	.042265
3				.093000	.177616	.055093
4	.002000	.003820	.000676	.083000	.158518	.043274
5	.001000	.001910	.000253	.052000	.099312	.050961
6	.001000	.001910	.000253	.056000	.106952	.055964
7	.001000	.001910	.000875	.049000	.093583	.047337
8	.001000	.001910	.000253	.053000	.101222	.053559
9				.022000	.042017	.077359
10				.029000	.055386	.096490
11				.017000	.032468	.054290
12				.037000	.070665	.120671

(S+U) NO. TRAN.FACT. .008000	(S+U) DOSE TRAN. FACT. .001698	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .008000	SCAT.NO.FLX TRAN. FACT. .004373	SCAT. DOSE TRAN. FACT. .001698	SCAT. EGY. TRAN. FACT. .000148
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NUMBER REFL. FACT. .671000	NO. FLUX REFL. FACT. .496213	DOSE REFL. FACT. .387899	ENERGY REFL. FACT. Q36101	ENERGY ABS. FACTOR .637500	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .321000
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4104.105236	MEAN ENERGY SCAT.TR.NT. Q37071	MEAN ENERGY REFL. NT. L07602
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
628	3.00000000	1.00000000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.05942460	.08854069	.03757603	.02582508	.04050036
1	.12710096	.07899894	.08937991	.07918380	.06238695
2	.13589935	.10420844	.11434396	.06740537	.09614960
3	.20005901	.17759423	.11445849	.11004125	.11147684
5	.27185074	.23703053	.14926464	.07529149	.10263857
8	.25843938	.14972699	.12653453	.11167887	.10951097
12	.19535455	.18057210	.10154247	.07853339	.06730323
18	.12160629	.11812933	.04682080	.06235458	.03495404
24	.03499587	.02923137	.00906920	.00312926	.00691831
INCHES	6	7	8	9	10
	.08881409	.07637129	.04817870	.20367541	.19720070
1	.13573813	.10828303	.07775296	.20013505	.33434801
2	.15237591	.11022370	.09363231	.21801587	.36890893
3	.18764192	.12517989	.10953834	.22936263	.38233730
5	.16135470	.12678060	.13021723	.23623957	.28394258
8	.16782123	.12117528	.12318589	.18607278	.23022896
12	.17392070	.12751337	.09072068	.13210631	.17004559
18	.09631222	.02158694	.05440483	.03223683	.05939630
24	.01243969	.00647740	.01478791	.01400423	.01834136

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
		.00232896	.00654944	.00129275	.00102323
1		.00450330	.02446085	.00659927	.00939420
2	.00276477	.00994789	.01358108	.02857129	.01516248
3	.02690978	.02307212	.04122911	.02093244	.01825934
5	.03230988	.03167782	.03566595	.01436645	.03180121
8	.03991103	.03451907	.02871705	.03792858	.02619345
12	.04297178	.04404059	.01641992	.02608904	.01330300
18	.03499587	.02923137	.00906920	.00312926	.00691831
24					
INCHES	6	7	8	9	10
	.01815066	.02048012	.01547249	.00589992	.12772547
1	.03336307	.03180569	.01512756	.03151776	.19535964
2	.03362722	.05065389	.02094892	.04887592	.23534429
3	.05464384	.06262239	.04655796	.07444199	.20722260
5	.06187246	.05083671	.05892166	.07847276	.17764866
8	.05932837	.05368521	.04426090	.07203726	.12937701
12	.03195873	.00987043	.03787521	.02497230	.04001803
18	.01243969	.00647740	.01478791	.01400423	.01834136
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.78461538	1.00000000	1.81761882
1	.93100000	1.01992305	4.77253684	.82099999	2.11430774
2	.86999999	1.02513133	4.62281389	.67299999	2.13416345
3	.81699999	1.01147777	4.43916261	.55200000	2.29968990
5	.70199999	.94689157	3.82212544	.37100001	2.14561066
8	.56399999	.77857358	2.95751267	.20500000	1.78937490
12	.40699999	.61795794	2.12258352	.09199999	1.40961241
18	.21500000	.31551902	.85372723	.02799999	.67580217
24	.10600000	.15739460	.37628142	.00800001	.15739460

RUN NUMBER 625	HISTORIES 1000	ENERGY SET 28	ANGLE SET 2541	SLANT MFP 4.754596
INC. ENERGY 3.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 4.600000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.023000	.037528	.005221	.032000	.059425	.008268
2	.019000	.028700	.003681	.047000	.088541	.011356
3	.006000	.009134	.001608	.022000	.037576	.006617
4	.001000	.005915	.001672	.018000	.025825	.007298
5	.005000	.006913	.003006	.021000	.040500	.017609
6	.010000	.012551	.008458	.044000	.088814	.059853
7	.004000	.006557	.005559	.038000	.076371	.064750
8	.009000	.016689	.014875	.024000	.048179	.042942
9	.009000	.013744	.012549	.113000	.203675	.185964
10	.012000	.019383	.018540	.086000	.197201	.188627

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.005000	.019099	.007955	.040000	.152788	.108899
2	.015000	.057296	.027787	.029000	.110772	.062638
3	.014000	.044563	.028593	.040000	.127324	.091985
4	.007000	.022282	.009296	.038000	.120957	.088965
5	.008000	.025465	.019503	.033000	.105042	.091735
6	.009000	.028648	.020708	.037000	.117774	.110290
7	.006000	.019098	.012417	.036000	.114591	.111074
8	.013000	.024828	.021617	.044000	.084034	.092915
9	.008000	.015279	.009322	.039000	.074484	.085632
10	.004000	.007639	.007491	.036000	.068755	.117660
11	.005000	.009549	.007310	.028000	.053476	.076851
12	.004000	.001910	.006410	.045000	.021486	.094457

(S+U) NO. TRAN.FACT. .106000	(S+U) DOSE TRAN. FACT. .083169	UNSCAT. NO. FACTOR .008000	SCAT. NO. TRAN. FACT. .098000	SCAT.NO.FLX TRAN. FACT. .157113	SCAT. DOSE TRAN. FACT. .075169	SCAT. EGY. TRAN. FACT. .002810
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NUMBER REFL. FACT. .445000	NO. FLUX REFL. FACT. .866107	DOSE REFL. FACT. .593284	ENERGY REFL. FACT. 020661	ENERGY ABS. FACTOR .757281	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .449000
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4604.402618	MEAN ENERGY SCAT.TR.NT. 086021	MEAN ENERGY REFL. NT. 139289
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
626	3.00000000	.86603000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05702452	.05247251	.03336001	.03003150	.05265952
2	.13894164	.12564393	.07703584	.04923008	.06337635
3	.17060802	.12825589	.09951464	.09270582	.09301406
5	.21342456	.18370185	.11916814	.08844344	.09077674
8	.29012872	.19937437	.14600337	.12260361	.14404194
12	.25130237	.20019427	.12053424	.09088421	.14700769
18	.17484109	.16328036	.09512350	.11321738	.10326147
24	.18726989	.08916963	.04365508	.02837970	.02989541
	.01772720	.01265322	.00390068	.00549991	.00859925
INCHES	6	7	8	9	10
1	.11329450	.06386348	.06203447	.22565253	.19991799
2	.13277566	.07311826	.10431106	.26496449	.30677361
3	.22057920	.08194748	.12254348	.28654638	.37566176
5	.23538674	.13206827	.13290001	.27700488	.36380476
8	.29414178	.15591928	.13950444	.24487998	.31754236
12	.22435607	.15326150	.15158290	.20811817	.27197042
18	.18609860	.09952986	.10699865	.15793944	.13728657
24	.06551974	.03653605	.04532254	.03678915	.05247169
	.00942084	.02866185	.00559981	.01176292	.01829648

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00656610	.01040732
2	.00155646	.00217433	.00209917	.00455332	.01991246
3	.00492164	.01338937	.01139250	.00826548	.01906399
5	.02166429	.02297144	.02730619	.00887408	.05199271
8	.03010934	.03489098	.03424519	.01790344	.04653626
12	.02876878	.03642519	.03042253	.02209657	.02370932
18	.04380561	.02694886	.01576680	.01475098	.00967357
24	.01772720	.01265322	.00390068	.00549991	.00859925
INCHES	6	7	8	9	10
1	.01090293	.00735637	.01290059	.03024812	.12793375
2	.03977426	.02488239	.02720299	.06381353	.20105550
3	.05314193	.04443739	.04327316	.08191912	.24444454
5	.09210079	.05372047	.05738091	.08191357	.22590177
8	.07478979	.05719232	.06683998	.08715035	.20061000
12	.06171668	.04843085	.04216710	.08760763	.11367479
18	.02325726	.02080589	.02107954	.02734148	.04328302
24	.00942084	.02866185	.00559981	.01176292	.01829648

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	5.52476864	1.15469441	2.02525666
1	.90600000	1.12545194	5.28044937	.91913676	2.25530766
2	.83599999	1.11794597	5.10796965	.73092156	2.40229830
3	.78199999	1.10506041	4.88373296	.58081128	2.41749069
5	.67699999	1.01101899	4.09058576	.36719282	2.42133268
8	.53999999	.83501915	3.12850642	.18475111	2.00396294
12	.35699999	.56891989	1.96669341	.07390044	1.41147737
18	.17600000	.26518811	.74585149	.01847510	.63348400
24	.07100000	.12674093	.36874825	.00461877	.12674093

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
626	1000	28	0φ	5.490106
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
3.000000	.866030	.000010	1.154694	5.311594

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.011000	.014358	.001998	.034000	.049385	.006871
2	.008000	.009811	.001258	.031000	.045443	.005829
3	.003000	.003022	.000532	.023000	.028891	.005087
4	.002000	.006822	.001928	.022000	.026008	.007350
5	.005000	.009844	.004280	.026000	.045605	.019828
6	.006000	.010282	.006929	.055000	.098116	.066122
7	.011000	.025626	.021726	.036000	.055308	.046891
8	.003000	.005099	.004545	.039000	.053724	.047884
9	.07000	.012796	.011684	.117000	.195422	.178429
10	.011000	.015357	.014689	.094000	.173135	.165607

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.008000	.015279	.005924	.076000	.145149	.081143
2	.008000	.015279	.007259	.058000	.110772	.084059
3	.013000	.024828	.015059	.071000	.135600	.094757
4	.008000	.015279	.010285	.069000	.131780	.091642
5	.002000	.003820	.005645	.051000	.097403	.115394
6	.005000	.009549	.012730	.037000	.070665	.089285
7	.009000	.017189	.012956	.029000	.055386	.073415
8	.007000	.013369	.015581	.043000	.082124	.097979
9	.003000	.005730	.021481	.012000	.022918	.088667
10				.009000	.017189	.071546
11	.001000	.001910	.008295	.009000	.017189	.056637
12	.003000	.005730	.017653	.013000	.024828	.105703

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.071000	.073569	.004000	.067000	.113017	.069569	.002424

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.477000	.771036	.549898	.022922	.742527	.001000	.451000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
4604.405236	108539	144166

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
627	3.00000000	.70711000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06596152	.09445101	.04439155	.03876050	.04430201
2	.10991422	.10369363	.10138131	.07636803	.10426086
3	.17438208	.17804746	.08094019	.08086170	.08963252
5	.20627021	.20625409	.10330607	.08384466	.10673558
8	.27366053	.21872184	.18965045	.11019256	.14297031
12	.29164879	.18311192	.10773371	.08792711	.14438381
18	.18625735	.19697301	.09717327	.09256421	.12346298
24	.10368887	.09762205	.05474483	.03476614	.02902624
	.01385934	.02320336	.00336016	.00336016	.00709532

INCHES	6	7	8	9	10
1	.09252301	.11785396	.06341301	.24039846	.22939101
2	.12274437	.16861071	.12269183	.26249227	.39867902
3	.15526952	.21352555	.14666609	.30667457	.43596157
5	.21965828	.15966509	.15639899	.27383788	.36333385
8	.24056983	.19719903	.13932090	.22942907	.35398219
12	.22343172	.11263751	.10692814	.20090081	.18737822
18	.12251079	.06786612	.06212310	.14722734	.10265654
24	.04111972	.03064894	.03883648	.03302677	.02820375
	.00737746	.00333851	.00542583	.00543315	.00728146

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00516374	.00815419	.00257124	.01568841
2	.00597767	.01629436	.00134450	.00836695	.01434918
3	.00656797	.01938759	.01003466	.01457023	.02048825
5	.02841686	.03253364	.03033631	.01803650	.03691006
8	.05465726	.03892946	.02254280	.02893701	.05721375
12	.03909146	.04669694	.02213778	.03073474	.04048879
18	.02410660	.02828338	.02332747	.01399629	.01134148
24	.01385934	.02320336	.00336016	.00360169	.00709532

INCHES	6	7	8	9	10
1	.00943663	.04872336	.02209958	.02758180	.21206745
2	.03896440	.05909545	.03278326	.08537843	.26760675
3	.05940464	.05745017	.04926002	.10225559	.23574004
5	.07845068	.08609360	.07033805	.10470215	.25482499
8	.08799342	.05956695	.05390945	.09242993	.14442075
12	.05634250	.03531979	.03033448	.08316928	.07721276
18	.02054485	.02073160	.02183951	.02288368	.02400469
24	.00737746	.00333851	.00542583	.00543315	.00728146

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.76643716	1.41420712	2.38882617
1	.91000000	1.42062697	6.58859145	1.06914060	2.63997686
2	.82199999	1.33767322	6.03907452	.80751227	2.66947353
3	.74799999	1.18468243	5.16983513	.60952328	2.48882796
5	.63099999	1.08853779	4.37433227	.34789495	2.44359166
8	.48499999	.79050675	2.76148797	.14990596	1.79598770
12	.31199999	.50961156	1.58171562	.04808305	1.24689776
18	.14000000	.21954479	.58146139	.00848523	.50016905
24	.05600000	.08139049	.16586146	.00141422	.08139049

RUN NUMBER 627	HISTORIES 1000	ENERGY SET 28	ANGLE SET 0°	SLANT MFP 6.723984
INC. ENERGY 3.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 6.505353

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.010000	.010185	.001417	.034000	.046642	.006489
2	.014000	.017136	.002198	.048000	.066787	.008566
3	.002000	.002260	.000398	.023000	.031390	.005527
4	.002000	.002110	.000596	.029000	.027408	.007746
5	.003000	.006958	.003025	.028000	.031326	.013620
6	.006000	.005450	.003673	.046000	.065424	.044090
7	.003000	.002467	.002092	.055000	.083336	.070654
8	.005000	.003912	.003487	.031000	.044840	.039966
9	.004000	.004370	.003990	.112000	.169988	.155207
10	.006000	.005085	.004864	.112000	.162205	.155152

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.016000	.030558	.010985	.091000	.173797	.077121
2	.006000	.011459	.002290	.057000	.108862	.055769
3	.011000	.021008	.012941	.066000	.126050	.077021
4	.005000	.009549	.005467	.070000	.133690	.082259
5	.003000	.005730	.003941	.038000	.072574	.074451
6	.006000	.011459	.004961	.043000	.082124	.083231
7	.003000	.005730	.001584	.050000	.095493	.092041
8	.003000	.005730	.002495	.042000	.080214	.069023
9	.001000	.001910	.001025	.017000	.032468	.089293
10	.001000	.001910	.003473	.015000	.028648	.087139
11				.014000	.026738	.096204
12				.015000	.028648	.084778

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.056000	.026741	.001000	.055000	.059934	.025741	.001457

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.518000	.729346	.507018	Q24343	.740993	.001000	.425000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.079477	.140981

4604.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
628	3.00000000	.34202000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.07345652	.08931152	.07113100	.04621152	.07479501
2	.11961969	.11623998	.08038184	.08108712	.10751313
3	.10634284	.12072302	.08220376	.10684745	.11846431
5	.19124928	.12932276	.12376811	.10235380	.12763508
8	.22737806	.26027832	.13407511	.10595336	.11898739
12	.21122503	.16847475	.11644492	.07597547	.07710121
18	.14808183	.15490019	.08676691	.03906487	.05355246
24	.08754848	.05484948	.01811509	.01122904	.01424460
	.00673442	.00840883		.00234595	.00401085

INCHES	6	7	8	9	10
1	.12082550	.10693801	.09026749	.20905052	.45172550
2	.17576261	.14013821	.13830271	.31334707	.62731670
3	.21688508	.17170563	.20506012	.30033421	.52984917
5	.24017641	.18725025	.14392463	.25721903	.51884680
8	.21486078	.13824688	.15009671	.24850464	.28119619
12	.16277284	.07678477	.10561416	.11940073	.14299447
18	.09848880	.03910495	.08683723	.06883456	.04402976
24	.04680531	.02413334	.00881563	.00928411	.01392533
	.01080394	.00120463		.00339719	.00560746

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00138091	.00432336	.00587456	.00246371
2	.00593425	.01265784	.00575707	.01149668	.01907250
3	.00747566	.02151257	.01218997	.02970869	.03125303
5	.04030732	.02696526	.04033911	.02986593	.02841450
8	.04952624	.04408836	.03316210	.04037352	.03437861
12	.04282840	.05791752	.02313188	.01661232	.01853154
18	.03124207	.03207722	.00492459	.00809757	.00193839
24	.00673442	.00840883		.00234595	.00401085

INCHES	6	7	8	9	10
1	.03610293	.03458328	.02522016	.07116080	.36314559
2	.05785870	.04741101	.06468979	.12867940	.37886968
3	.06995212	.06615503	.07447207	.13791123	.40714321
5	.10331029	.05440268	.07227835	.16100061	.24506826
8	.06112798	.03546793	.05501942	.09296287	.12693089
12	.04966092	.01907946	.05410655	.04540603	.04251196
18	.01766043	.01381066	.00630402	.00928411	.01392533
24	.01080394	.00120463		.00339719	.00560746

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	13.98928537	2.92380562	4.18813147
1	.79999999	2.18158646	10.22515478	1.63733117	3.53704021
2	.67399999	1.65050188	7.44070235	.91807499	2.87649054
3	.59799999	1.37236337	5.90444580	.51458977	2.53633594
5	.48799999	.96276164	3.62041313	.16080931	2.04038675
8	.34899999	.59935218	1.88108969	.02631424	1.28310259
12	.21999999	.36978658	.99480082		.81966158
18	.08900000	.13926439	.29324705		.28895042
24	.02800000	.04251326	.09964067		.04251326

RUN NUMBER 628	HISTORIES 1000	ENERGY SET 28	ANGLE SET 0°	SLANT MFP 13.901514
INC. ENERGY 3.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 13.449506

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.004000	.003144	.000437	.040000	.025124	.003495
2	.006000	.002709	.000347	.038000	.030546	.003918
3				.036000	.024328	.004284
4	.002000	.000771	.000218	.026000	.015805	.004467
5	.003000	.001370	.000596	.042000	.025581	.011122
6	.007000	.003556	.002397	.065000	.041325	.027849
7	.001000	.000422	.000358	.043000	.036575	.031009
8				.044000	.030873	.027517
9	.002000	.001093	.000998	.095000	.071499	.065282
10	.003000	.002867	.002742	.187000	.154499	.147782

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.008000	.015279	.001939	.091000	.173797	.038276
2	.004000	.007639	.001002	.066000	.126050	.032973
3	.002000	.003820	.000771	.062000	.118411	.030802
4	.006000	.011459	.003028	.066000	.126050	.039453
5	.002000	.003820	.001421	.059000	.112681	.052957
6	.001000	.001910	.000164	.054000	.103132	.050622
7	.002000	.003820	.002034	.058000	.110772	.055410
8	.001000	.001910	.000864	.071000	.135600	.065788
9				.020000	.038197	.057267
10	.001000	.001910	.000538	.022000	.042017	.058359
11	.001000	.001910	.003696	.021000	.040107	.063357
12				.026000	.049656	.078736

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.028000	.008094		.028000	.015933	.008094	.000684

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.616000	.456156	.326726	.031047	.682678	.002000	.354000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
0.73338	1.51201

4604.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
629	5.00000000	1.00000000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05423501	.03498091	.01641278	.03324549	.04859678
2	.10268300	.07336273	.04249470	.04253606	.07565736
3	.11501402	.08878854	.04430135	.04284844	.07416051
5	.14679193	.15010944	.06637641	.08712321	.08408637
8	.18897193	.15367396	.09054731	.07534499	.08449533
12	.16198650	.21584779	.09847687	.09691073	.10417634
24	.20305723	.19010667	.08465894	.05998015	.05513123
36	.11151069	.05947132	.01646024	.02134821	.03117142
	.00596984	.00465458	.00573709		.00122390

INCHES	6	7	8	9	10
1	.05715119	.10178110	.10333220	.10502292	.23240049
2	.08834909	.13766864	.16730668	.19400225	.27897857
3	.08793041	.18793752	.16135198	.22326098	.32427611
5	.08503066	.18740644	.19674838	.17490740	.32770542
8	.15223973	.22540566	.23411492	.17505473	.36039892
12	.18528779	.17140248	.17359665	.13410486	.26370128
24	.18434546	.13117188	.20482450	.11425952	.19413285
36	.06691248	.05777561	.06335826	.01619142	.03331402
	.00423634	.00131340	.00614332	.00491671	.00747391

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00140368	.00474156	.00521706
2			.00128962	.00124112	.00563415
3		.00249619	.00435818	.00676250	.00441751
5	.01181619	.00806920	.01527032	.02384617	.00625105
8	.01571795	.03236876	.01851406	.00945600	.01885156
12	.04150814	.03784670	.02853917	.01427386	.01602000
24	.02721754	.02534969	.00716314	.00569093	.01130179
36	.00596984	.00465458	.00573709		.00122390

INCHES	6	7	8	9	10
1	.01037012	.01736652	.00933525	.02564588	.09836637
2	.02349195	.03977758	.03328478	.05968295	.15300016
3	.01786734	.05545964	.05970431	.06050558	.20555863
5	.02789376	.07238998	.06928348	.06800042	.22190721
8	.05234932	.08159733	.07552553	.08360542	.19128807
12	.04614377	.03982791	.08719218	.06191563	.14556197
24	.01241783	.03086989	.03557906	.01062581	.02832756
36	.00423634	.00131340	.00614332	.00491671	.00747391

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	5.76923077	1.00000000	1.73478966
1	.94500000	1.01744644	5.72501851	.84499999	2.04803911
2	.88600000	1.03140231	5.67754641	.71400000	2.06386985
3	.83299999	1.02012987	5.52076704	.60300001	2.10928566
5	.74099999	.95632777	4.84183779	.43100001	2.17124748
8	.59399999	.83927400	3.92008303	.26000000	1.86549130
12	.44699999	.65082933	2.71018885	.13200000	1.55366844
24	.13600000	.21154323	.70463181	.01700000	.49451367
36	.03200000	.04366910	.13801322	.00200000	.04366910

RUN NUMBER 629	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 2541	SLANT MFP 6.062776
INC. ENERGY 5.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 5.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
30.4800	30.4800			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.004000	.005908	.000652	.025000	.054235	.005984
2	.003000	.004807	.000489	.020000	.034981	.003558
3	.003000	.008382	.001171	.012000	.016413	.002292
4				.014000	.033245	.007452
5	.001000	.001187	.000409	.021000	.048597	.016757
6	.003000	.004229	.002260	.029000	.057151	.030546
7	.001000	.001347	.000929	.058000	.101781	.070194
8	.005000	.006158	.004566	.052000	.103332	.076608
9	.004000	.004831	.003915	.059000	.105023	.085105
10	.006000	.007366	.006985	.097000	.232400	.220380

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.003000	.011459	.010183	.027000	.103132	.055494
2	.001000	.003820	.003015	.027000	.103132	.065245
3	.008000	.025465	.016187	.041000	.130507	.095219
4	.003000	.009549	.006383	.033000	.105042	.084978
5	.003000	.009549	.010321	.031000	.098676	.075941
6	.003000	.009549	.004030	.028000	.089127	.085157
7	.001000	.003183	.002458	.028000	.089127	.089457
8	.002000	.003820	.001968	.043000	.082124	.085070
9	.005000	.009549	.007054	.029000	.055386	.062810
10				.026000	.049656	.073240
11				.027000	.051566	.088957
12	.001000	.000477	.000394	.047000	.022441	.090520

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.032000	.023376	.002000	.030000	.044217	.021376	.001167

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.387000	.787159	.518877	.017474	.811577	.102000	.479000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
5805.502618	194562	225766

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
630	5.00000000	.86603000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05622602	.06161146	.03036104	.03342553	.05231152
2	.11876918	.09584648	.04307470	.06448653	.09247772
3	.12914688	.08741237	.06588735	.08796276	.10212853
5	.18026424	.14263890	.08761291	.08123881	.11903924
8	.19756340	.18481558	.08517413	.09710633	.11849857
12	.26032715	.19348729	.14300678	.10188989	.09236325
24	.17680795	.18483869	.08519483	.06817171	.07336888
36	.07870142	.02569202	.00920326	.01567607	.03045769
	.00576612	.01404170		.00656132	
INCHES	6	7	8	9	10
1	.04859903	.09977803	.12497398	.08009200	.19910451
2	.06868737	.16372541	.15891587	.14324021	.37721064
3	.11336825	.20310963	.25842171	.14501645	.41531744
5	.12387562	.20135085	.30597402	.21260965	.39053270
8	.13926938	.22903978	.28578865	.19112365	.36480874
12	.18449921	.23536412	.31226663	.15414377	.28332485
24	.13480155	.13378910	.16369271	.10418270	.18372530
36	.04854642	.04530647	.04471125	.01892330	.05345385
	.00361913	.00124900	.00451795	.00685469	.00565809

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00232689	.01148057
2		.00145041	.00705893	.00581979	.01051568
3	.00147439	.01461255	.00388030	.00706584	.02444358
5	.00371887	.02049574	.01281886	.02565689	.02034126
8	.02462044	.03768196	.02189568	.01929034	.01514213
12	.03498771	.04686278	.02574917	.01534633	.02406580
24	.01441194	.00849727	.00362698	.00829088	.01181858
36	.00576612	.01404170		.00656132	
INCHES	6	7	8	9	10
1	.00504645	.01785332	.02746938	.03718550	.15943941
2	.01872088	.03196074	.05046015	.04541543	.24319094
3	.02687375	.03551983	.07106608	.08193072	.25349716
5	.02719288	.05706270	.11752735	.07201068	.27012147
8	.05303747	.08408469	.12535665	.07652301	.21835244
12	.04422249	.05006640	.09316530	.06398684	.14446133
24	.02323837	.02536189	.02050405	.01255787	.04142708
36	.00361913	.00124900	.00451795	.00685469	.00565809

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	6.66169852	1.15469441	1.91999378
1	.94600000	1.21226971	6.80210524	.95146819	2.27790230
2	.87899999	1.19747577	6.55981760	.78288281	2.39065421
3	.83699999	1.16468369	6.17722427	.64431947	2.48945642
5	.72899999	1.06342120	5.34556588	.43647449	2.32966270
8	.59299999	.91962532	4.18970372	.24364053	2.20431346
12	.42599999	.65491951	2.67707056	.11200535	1.42057879
24	.11600000	.18012715	.67485105	.01039224	.38106400
36	.02400000	.04826801	.12377973		.04826801

RUN NUMBER 630	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 0φ	SLANT MFP 7.000654
INC. ENERGY 5.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 6.697228

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.004000	.004722	.000521	.032000	.048693	.005373
2	.005000	.010659	.001084	.032000	.053357	.005428
3				.015000	.026294	.003672
4	.001000	.005123	.001148	.018000	.028947	.006488
5				.029000	.045303	.015622
6	.002000	.003399	.001817	.027000	.042088	.022495
7	.001000	.001069	.000737	.054000	.086411	.059594
8	.003000	.003837	.002845	.054000	.108231	.080240
9	.004000	.004906	.003975	.056000	.069362	.056207
10	.004000	.005352	.005076	.086000	.172430	.163512

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.001789	.058000	.110772	.052976
2	.005000	.009549	.006436	.059000	.112681	.067364
3	.003000	.005730	.002368	.053000	.101222	.063895
4	.003000	.005730	.003392	.047000	.089763	.056332
5	.004000	.007639	.007773	.031000	.059205	.057062
6	.002000	.003820	.000688	.036000	.068755	.081837
7	.002000	.003820	.004813	.034000	.064935	.066889
8	.001000	.001910	.002406	.043000	.082124	.091279
9	.001000	.001910	.000995	.011000	.021008	.064908
10	.001000	.001910	.002193	.012000	.022918	.072076
11				.010000	.019099	.069580
12				.009000	.017189	.055327

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.024000	.017203		.024000	.039066	.017203	.000843

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.403000	.681118	.418631	.016501	.826550	.073000	.500000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
5805.505236	1.75604	2.04733

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
631	5.00000000	.70711000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.05939850	.05598955	.03626354	.01729699	.05575850
1	.07021644	.06172935	.06181212	.04131633	.05929369
2	.13792570	.13676187	.06497828	.05374214	.07016898
3	.15325486	.17377315	.07835318	.06043463	.08506928
5	.20776106	.18506127	.07411484	.07633524	.11788238
8	.18968914	.25892544	.11844353	.11670652	.08146780
12	.16573051	.21262820	.13171079	.04972604	.05902024
24	.06726023	.03840401	.03075247	.00862910	.01455796
36		.01071726	.00140801		.00308242
INCHES	6	7	8	9	10
	.03530153	.11115597	.12926499	.12748449	.26173750
1	.11591572	.15459132	.20018121	.22219876	.40460209
2	.11631796	.16770163	.21098964	.21888662	.41874005
3	.17086916	.17429935	.23256132	.25092275	.43763729
5	.14763817	.22669273	.24288229	.16051368	.38910838
8	.12812043	.22203452	.20834403	.16142392	.30578056
12	.11891902	.22745331	.16102036	.11182162	.14678637
24	.03248807	.03095507	.03349505	.01383942	.01546805
36	.00101840	.00126891		.00352837	.00283198

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00557783	.00454738
2			.00190895	.00508596	.00260598
3	.00463287	.00243318	.00670463	.01251174	.01447536
5	.01142319	.00886115	.02234518	.01588765	.02661936
8	.01796763	.04261271	.02079414	.03519762	.02747593
12	.03474738	.05633171	.03856808	.01593872	.01791230
24	.02389145	.02340052	.00675775	.00757045	.00567585
36		.01071726	.00140801		.00308242
INCHES	6	7	8	9	10
1	.00520156	.02518711	.03576909	.06341297	.13616071
2	.02770010	.03186440	.07319770	.05785717	.21837030
3	.02392209	.04174739	.07463118	.08109724	.26087080
5	.03834156	.07129978	.08772313	.07649707	.27065716
8	.03966473	.09071795	.10714472	.09761497	.22921819
12	.04501367	.06808379	.07360899	.08231370	.11652712
24	.01178546	.00911835	.01258679	.00826692	.01546805
36	.00101840	.00126891		.00352837	.00283198

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	8.15888725	1.41420712	2.27684438
1	.91200000	1.39025188	7.80432744	1.11439521	2.50625224
2	.82399999	1.29681320	7.13691789	.87822262	2.47443549
3	.76799999	1.21457374	6.48890404	.69154728	2.50872226
5	.65999999	1.05957419	5.29097477	.42991897	2.25790901
8	.54299999	.91771126	4.10398592	.20930265	2.00023855
12	.39099999	.62965525	2.42103014	.08060980	1.46542626
24	.08100000	.12876421	.33565814	.00424263	.29009206
36	.01200000	.02385534	.05579838		.02385534

RUN NUMBER 631	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 8φ	SLANT MFP 8.574021
INC. ENERGY 5.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 8.202401

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
30.4800	30.4800			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1				.034000	.042001	.004635
2	.003000	.006443	.000655	.032000	.039591	.004027
3	.001000	.000873	.000122	.024000	.025642	.003581
4				.012000	.012231	.002741
5	.002000	.002260	.000779	.028000	.039427	.013596
6	.001000	.000722	.000386	.026000	.024962	.013342
7	.001000	.000873	.000602	.046000	.078599	.054207
8				.069000	.091405	.067765
9	.002000	.002260	.001832	.060000	.090146	.073049
10	.002000	.002260	.002143	.119000	.185077	.175504

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000737	.076000	.145149	.060808
2				.059000	.112681	.057540
3	.004000	.007639	.003307	.053000	.101222	.057833
4	.002000	.003820	.001750	.063000	.120321	.056365
5	.002000	.003820	.001183	.040000	.076394	.069530
6	.001000	.001910	.002148	.036000	.068755	.059838
7	.001000	.001910	.002513	.036000	.068755	.067693
8				.035000	.066845	.058019
9				.011000	.021008	.070502
10				.014000	.026738	.075391
11	.001000	.001910	.000813	.008000	.015279	.048052
12				.019000	.036287	.106145

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.012000	.006520		.012000	.015691	.006520	.000398

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.450000	.629081	.412447	.020202	.793990	.075000	.463000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
5805.505236	224466

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
632	5.00000000	.34202000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06187700	.07105049	.03871652	.04181902	.05401900
2	.10986337	.10630157	.09536878	.07611622	.08394764
3	.10028122	.11877020	.08718543	.04452563	.13734533
5	.14602928	.12746773	.07905363	.03846310	.12524860
8	.18847994	.20447904	.09201805	.12423685	.10897893
12	.27392128	.18413066	.08959677	.06848723	.07948691
24	.16259592	.14189779	.04655753	.05498675	.05065424
36	.02598328	.02872152	.01151525		.00394405
	.00129639	.00126750	.00100045	.00198652	.00133330
INCHES	6	7	8	9	10
1	.07473751	.11746399	.15321297	.24895602	.37240054
2	.11048807	.18302562	.21574687	.28897190	.63688915
3	.16495672	.21970819	.23598954	.27959757	.53183386
5	.13675918	.20011988	.27133696	.26834332	.54054931
8	.18373278	.23029965	.21661099	.17175679	.36188095
12	.14263747	.17453294	.18603253	.12865809	.18014239
24	.07182340	.10009268	.12166477	.05325343	.06655721
36	.01366251	.01236732	.01971348	.00565835	.02063589
		.00148165	.00441751		.00479233

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00176522	.00217468	.00353284	.01093502
2		.01210396	.00593398	.01457951	.02863096
3	.00497986	.01323741	.00776109	.00948020	.02857648
5	.01555068	.02528568	.01649810	.01951242	.02076078
8	.04080684	.03915017	.02269931	.01967335	.03798883
12	.03787643	.03812796	.02011345	.02580349	.02397757
24	.01107436	.01664694	.00567240		.00394405
36	.00129639	.00126750	.00100045	.00198652	.00133330
INCHES	6	7	8	9	10
1	.01300859	.02384120	.05128633	.09046347	.28861015
2	.02825442	.05721843	.07166128	.11280923	.35209721
3	.03866274	.04526728	.10438046	.13218008	.39170335
5	.07222771	.08435924	.10767110	.09375502	.27943456
8	.05250348	.05287363	.10043701	.08597235	.16873375
12	.03020708	.04533947	.06157631	.03745264	.06238382
24	.00887662	.00368349	.01482843	.00217069	.01263589
36		.00148165	.00441751		.00479233

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	16.86810937	2.92380562	4.10845771
2	.82499999	2.27206274	12.77699202	1.78644523	3.69316444
3	.69499999	1.77386849	9.56035247	1.09057951	3.01077317
5	.61399999	1.44285666	7.55843217	.66662771	2.59999868
8	.49599999	.98357876	4.61804137	.24852346	2.13099746
12	.38499999	.67639104	2.68494593	.05555230	1.56317856
24	.23799999	.38870583	1.26982185	.00584760	.87593133
36	.04900000	.07953288	.22189640		.14220166
	.01300000	.01757566	.06039074		.01757566

RUN NUMBER 632	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 84	SLANT MFP 17.726378
INC. ENERGY 5.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 16.958073

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.001000	.000422	.000047	.035000	.021163	.002335
2	.001000	.000422	.000043	.035000	.024301	.002472
3	.001000	.000349	.000049	.020000	.013242	.001849
4	.001000	.000671	.000150	.020000	.014303	.003206
5	.001000	.000422	.000146	.026000	.018476	.006371
6				.032000	.025562	.013662
7	.001000	.000422	.000291	.062000	.040175	.027707
8	.003000	.001443	.001070	.071000	.052402	.038850
9				.098000	.085148	.068999
10	.004000	.001616	.001532	.156000	.127368	.120780

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.003000	.005730	.001221	.076000	.145149	.029811
2	.001000	.001910	.000082	.061000	.116501	.029110
3	.004000	.007639	.001729	.056000	.106952	.030910
4	.003000	.005730	.002085	.074000	.141329	.039797
5	.001000	.001910	.000287	.046000	.087853	.040672
6				.053000	.101222	.048200
7	.001000	.001910	.000950	.049000	.093583	.037839
8				.050000	.095493	.040312
9				.018000	.034377	.045645
10				.011000	.021008	.036905
11				.024000	.045836	.065224
12				.037000	.070665	.102236

(S+U) NO. TRAN. FACT. .013000	(S+U) DOSE TRAN. FACT. .003327	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .013000	SCAT. NO. FLX. TRAN. FACT. .005767	SCAT. DOSE TRAN. FACT. .003327	SCAT. EGY. TRAN. FACT. .00558
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NUMBER REFL. FACT. .555000	NO. FLUX REFL. FACT. .422139	DOSE REFL. FACT. .286232	ENERGY REFL. FACT. Q26815	ENERGY ABS. FACTOR .726262	NUMBER ABS. FACTOR .C84000	NO. CUTOFF FACTOR .348000
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	MEAN ENERGY SCAT. TR. NT. 214522	MEAN ENERGY REFL. NT. 2A1578
5805.505236		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
633	14.00000000	1.00000000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03058876	.03894249	.03280451	.00784468	.02893008
2	.07343540	.04390001	.04330212	.02456977	.05980312
3	.07997478	.09853935	.04357420	.04885907	.06948401
5	.09571245	.11053429	.07245362	.07349454	.08766582
8	.17255875	.15018965	.13318177	.07522067	.08796650
12	.20250549	.16119354	.06708960	.05552809	.08455959
24	.16379361	.17744212	.09905364	.05032696	.07283215
36	.04632183	.03864039	.01114844	.00923287	.02058464
	.00535788	.00491104	.00118645	.00232929	.00359501
INCHES	6	7	8	9	10
1	.03980089	.13274830	.06549679	.06434620	.13045361
2	.08381659	.13038660	.09492171	.09741248	.23395993
3	.11264689	.19238878	.14516257	.08437959	.21552958
5	.14803280	.16762183	.14093459	.08959097	.27517864
8	.15034691	.15207575	.15592015	.10714501	.32137930
12	.11718382	.21723115	.10244608	.08912611	.28332610
24	.13142004	.11258536	.07708217	.10275645	.23078018
36	.01739263	.02629716	.02805194	.03130223	.08602044
	.00162533	.01910037	.00141693	.01072365	.02020474

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00428099		.00283325	
2		.00193384	.00582372	.00693599	.00533378
3	.00126181	.00424037	.00589461	.00513799	.02000541
5	.00714729	.00971736	.01192316	.01479066	.01136275
8	.02148590	.03148176	.01565555	.02112898	.02018351
12	.02960299	.02204646	.02540838	.00922769	.01510251
24	.01233639	.01529971	.00488519	.00378438	.00852317
36	.00535788	.00491104	.00118645	.00232929	.00359501
INCHES	6	7	8	9	10
1	.02295207	.00674342	.02346016	.01649976	.08720314
2	.01732169	.05519140	.05021667	.02309544	.13331786
3	.03280537	.03482666	.04524552	.02618549	.18212611
5	.03820551	.03990192	.07079747	.05243598	.24039682
8	.02857774	.07798716	.04788059	.05285663	.23455028
12	.05963789	.04642843	.02310601	.04980358	.18076772
24	.01178895	.01380348	.01232492	.01525168	.07338752
36	.00162533	.01910037	.00141693	.01072365	.02020474

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	7.00000000	1.00000000	1.53970408
2	.92700000	1.01497281	6.86289631	.85100000	1.73650773
3	.88000000	1.02417039	6.65012725	.72500001	1.81553879
5	.82999999	.97472933	6.20936739	.61700001	1.87821954
8	.73299999	.94367893	5.72495146	.44700000	1.95298445
12	.60199999	.82678811	4.56073293	.27500000	1.65518957
24	.43799999	.60513166	3.08220552	.14400001	1.36207269
36	.13100000	.19138541	.91472897	.02000001	.33499257
	.09100000	.07345070	.32366190	.00300000	.07345070

RUN NUMBER 833	HISTORIES 1000	ENERGY SET 2	ANGLE SET 2541	SLANT MFP 5.802276
INC. ENERGY 14.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 7.000000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.004000	.005357	.000490	.022000	.030589	.002797
2	.004000	.004959	.000418	.022000	.038942	.003282
3	.001000	.001187	.000137	.016000	.032804	.003796
4	.002000	.002327	.000432	.005000	.007845	.001457
5	.003000	.003644	.001041	.016000	.028930	.008266
6	.001000	.001598	.000707	.024000	.039801	.017626
7	.010000	.020958	.011976	.069000	.132748	.075856
8	.001000	.001445	.000887	.030000	.065497	.040234
9	.006000	.010415	.007588	.027000	.064346	.046881
10	.016000	.020323	.019742	.064000	.130454	.126726

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.007639	.005956	.026000	.099312	.034918
2	.006000	.022918	.016901	.025000	.095493	.062147
3	.005000	.015915	.009441	.020000	.063662	.038185
4	.003000	.009549	.002914	.027000	.085943	.064755
5	.011000	.035014	.027487	.020000	.063662	.045744
6	.002000	.006366	.003517	.024000	.076394	.053581
7	.008000	.025465	.021924	.021000	.066845	.042093
8	.002000	.003820	.003574	.039000	.074484	.065104
9	.003000	.005730	.008551	.027000	.051566	.053521
10	.003000	.005730	.007134	.018000	.034377	.037408
11	.002000	.003820	.006613	.018000	.034377	.061294
12	.001000	.000477	.001614	.030000	.014324	.052974

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.051000	.046420	.003000	.048000	.072212	.043420	.001649

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.295000	.571956	.326921	.006932	.911190	.270000	.384000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
7006.802618	328980

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
634	14.00000000	.86603000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03936802	.04439151	.01955250	.01855853	.02740249
2	.04995480	.04752194	.04181430	.02622783	.07086856
3	.08302209	.09922909	.03857270	.04659993	.06996578
5	.15565613	.07478849	.07160057	.04113876	.06303960
8	.16064082	.16443656	.10977695	.08019529	.08767632
12	.21173538	.13559840	.09830153	.05639268	.07259896
24	.14425682	.17281290	.07032969	.03620348	.07933420
36	.06473897	.03444452	.02361343	.00813037	.02453016
	.00568277	.00509359	.00118343		

INCHES	6	7	8	9	10
1	.08074800	.05931803	.06795848	.06261451	.15461850
2	.10720825	.13046177	.07500423	.10750505	.23877732
3	.12049920	.16616448	.10829634	.13264434	.28315904
5	.13294778	.13069055	.11586867	.12903419	.32159164
8	.20491946	.17958678	.12926671	.09945146	.35425835
12	.12643711	.15641278	.08219916	.09679681	.26672614
24	.12482776	.14105071	.07438358	.06173853	.19815141
36	.01974269	.03725221	.01953811	.00941511	.04778245
	.00414692	.00141486	.00800000	.00326304	.01579397

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1					.00265339
2			.00110234	.00756278	.01217233
3		.00295258	.00319486	.00333323	.01083656
5	.00449279	.00531411	.01449626	.00924300	.01454999
8	.02578507	.02220042	.02081598	.02382286	.01927078
12	.02656111	.03606751	.02578956	.00967477	.02738055
24	.01335694	.01852058	.00571802	.00362815	.01345207
36	.00568277	.00509359	.00118343		

INCHES	6	7	8	9	10
1	.01107494	.03037606	.01204520	.02269801	.09552985
2	.02334223	.04461752	.03265256	.03798773	.14783765
3	.02820140	.04639703	.04198631	.05779131	.19721128
5	.04859675	.08784301	.05083157	.04822040	.23926876
8	.03523362	.07623854	.02658695	.05815429	.19745476
12	.05535856	.05569805	.04226671	.02613080	.14974983
24	.01444270	.01840221	.01139389	.00941511	.04117356
36	.00414692	.00141486	.00800000	.00326304	.01579397

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.15469441	0.08286087	1.15469441	1.70766559
2	.91800000	1.13392851	7.70447339	.95955105	1.84789511
3	.84400000	1.10285959	7.23025799	.79558446	1.94373744
5	.78399999	1.05238975	6.78797689	.66048521	1.89684159
8	.66399999	.97780624	5.89098277	.45494960	2.02515830
12	.53199999	.76536951	4.13827608	.25980625	1.56300519
24	.38499999	.57822975	2.74247795	.12355230	1.22664139
36	.10400000	.16220487	.64093422	.01270163	.30188966
	.02300000	.04573329	.19203909	.00115470	.04573329

RUN NUMBER 634	HISTORIES 1000	ENERGY SET 2	ANGLE SET 0°	SLANT MFP 6.699855
INC. ENERGY 14.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 8.082861

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
30.4800	30.4800			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.004000	.005537	.000506	.017000	.034094	.003117
2	.002000	.003399	.000286	.023000	.038444	.003240
3	.001000	.001069	.000124	.014000	.016933	.001959
4				.011000	.016072	.002985
5				.018000	.023731	.006780
6	.003000	.003837	.001699	.040000	.069930	.030969
7	.001000	.001069	.000611	.033000	.051371	.029355
8	.001000	.005123	.003147	.034000	.058854	.036153
9	.002000	.003399	.002477	.029000	.054226	.039508
10	.008000	.012682	.012320	.073000	.133904	.130078

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.003000	.005730	.004924	.050000	.095493	.046921
2	.002000	.003820	.002169	.032000	.061115	.024600
3	.003000	.005730	.002974	.036000	.068755	.039494
4	.004000	.007639	.004388	.039000	.074484	.044800
5	.004000	.007639	.004373	.022000	.042017	.041502
6	.002000	.003820	.002662	.026000	.049656	.044878
7				.030000	.057296	.064771
8	.002000	.003820	.003427	.025000	.047746	.048652
9	.001000	.001910	.009504	.007000	.013369	.030566
10				.011000	.021008	.069098
11	.001000	.001910	.006010	.007000	.013369	.052271
12				.007000	.013369	.035122

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.023000	.022169	.001000	.022000	.036114	.021169	.000600

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.292000	.497561	.284145	.007602	.916976	.298000	.387000

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
7006.805236	381791	364483

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
635	14.00000000	.70711000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03432853	.03293500	.03382302	.01716502	.05187154
2	.04824123	.04996755	.03942958	.07596921	.07017643
3	.06267807	.06642180	.04746995	.05359032	.07211916
5	.14796699	.08849341	.04590092	.05595136	.10199284
8	.14443864	.11869805	.09215373	.05743529	.10736172
12	.14819774	.12262473	.05975004	.04263465	.10531276
24	.13994018	.17129111	.07146592	.05847922	.04742502
36	.04115668	.03874856	.01768289	.02015930	.01873599
	.00328449		.00266934	.00101138	.00274311

INCHES	6	7	8	9	10
1	.07520501	.08744903	.10216299	.08143401	.18660650
2	.10006855	.15602262	.13121605	.06658404	.30554142
3	.15209077	.19596039	.10675220	.09989848	.38715423
5	.13258037	.17492351	.09856687	.08632973	.39092554
8	.11794811	.15089491	.10786076	.08689132	.36708179
12	.11145392	.10975477	.08422723	.08927562	.24584375
24	.10445002	.12398896	.06974316	.06770793	.19578160
36	.02392431	.03572692	.04633183	.01263399	.04156294
		.00234699	.00208541	.00100568	.00960586

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00276980	.00315993
2			.00110811	.00375728	.01365564
3		.00945749	.00570579	.01475676	.01463737
5	.01129700	.01058348	.01443092	.02441670	.02360259
8	.01780688	.01578989	.02951031	.00996928	.03207039
12	.02620970	.03159729	.02169505	.01613759	.01565884
24	.01423865	.00804350	.00789169		.01066218
36	.00328449		.00266934	.00101138	.00274311

INCHES	6	7	8	9	10
1	.01969616	.03011420	.01771207	.00814989	.12812534
2	.01404905	.03863690	.02729653	.01520444	.22303161
3	.02167445	.05310241	.04295195	.03013507	.24508949
5	.03901552	.06069974	.04678754	.03979911	.27883494
8	.03903939	.06561423	.04235070	.04906848	.19976797
12	.03336097	.06902894	.02753568	.02771206	.15855063
24	.01453697	.00612456	.01849038	.00948361	.03469521
36		.00234699	.00208541	.00100568	.00960586

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	9.89944987	1.41420712	2.07665487
1	.90000000	1.33543627	9.07364873	1.12570888	2.16892555
2	.81300000	1.23334688	8.26106693	.89660733	2.14074268
3	.73099999	1.15168540	7.38478355	.71417461	2.03780614
5	.61099999	1.00201381	5.98046408	.45254628	1.80331059
8	.45799999	.72867487	3.92816182	.22768736	1.34676256
12	.32999999	.51799601	2.48117679	.09050925	1.14078237
24	.08400000	.12982359	.52104360	.00565682	.30232023
36	.02100000	.02475226	.09853101		.02475226

RUN NUMBER 635	HISTORIES 1000	ENERGY SET 2	ANGLE SET 0.0	SLANT MFP 8.205620
INC. ENERGY 14.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 9.899450

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.003000	.002467	.000226	.021000	.024274	.002219
2				.023000	.023289	.001963
3	.002000	.002110	.000244	.020000	.023917	.002767
4	.001000	.000722	.000134	.013000	.012138	.002254
5	.002000	.002260	.000646	.023000	.036679	.010480
6				.036000	.053178	.023550
7	.002000	.001595	.000911	.051000	.061836	.035335
8	.002000	.001445	.000887	.041000	.072240	.044376
9	.001000	.000722	.000526	.036000	.057583	.041953
10	.008000	.006895	.006698	.084000	.131951	.128181

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.011000	.021008	.009391	.063000	.120321	.047138
2	.001000	.001910	.000152	.042000	.080214	.035325
3	.002000	.003820	.002571	.034000	.064935	.029811
4	.004000	.007639	.003866	.043000	.082124	.032197
5	.001000	.001910	.000307	.035000	.066845	.055115
6				.026000	.049656	.037475
7				.029000	.055386	.043594
8	.002000	.003820	.003332	.034000	.064935	.056959
9				.012000	.022918	.067670
10				.010000	.019099	.053189
11				.009000	.017189	.045646
12				.011000	.021008	.055620

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.021000	.010272		.021000	.018217	.010272	.000740

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.348000	.497085	.293080	.008922	.903382	.308000	.323000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
7006.805236	358918

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
636	14.00000000	.34202000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05110500	.05251351	.02342453	.02520204	.06397149
2	.09013922	.09594712	.05088959	.04927871	.08849247
3	.08827076	.10527291	.06175263	.07416294	.06301125
5	.13611272	.11456628	.05342698	.08436449	.11556266
8	.12708354	.12249468	.08178266	.07429344	.08344183
12	.11448431	.07961565	.10646045	.04112264	.03558966
24	.13097033	.07069963	.05003213	.03913176	.04808971
36	.02860234	.01836102	.00710332	.00968818	.01060440
	.00243968			.00137367	.00259059

INCHES	6	7	8	9	10
1	.08281699	.12972949	.14476200	.10650050	.39894901
2	.19428544	.17981871	.15031265	.12814033	.54542586
3	.14462629	.19445364	.15682163	.13845144	.53247402
5	.14313511	.17943148	.12876328	.15700141	.47340263
8	.13107908	.17017840	.15251397	.09563770	.34934797
12	.11520472	.10852945	.08735496	.07649764	.20206390
24	.06052493	.07490264	.04864226	.03108116	.11221442
36	.02578383	.01423304	.00523164	.01574270	.00827607
	.00220117		.00383062		

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.01024288	.00832192
2	.00349263	.00525311	.00577824	.00505510	.00642122
3	.00663564	.01109529	.00219427	.02381650	.02826625
5	.01141058	.01964187	.01844665	.02234542	.02493715
8	.01442900	.02452755	.01417635	.02112792	.01674581
12	.04855605	.02075336	.01151774	.00671435	.01944385
24	.01440819	.00163927	.00240355		.00565717
36	.00243968			.00137367	.00259059

INCHES	6	7	8	9	10
1	.03896086	.04687128	.01438585	.03410926	.26765874
2	.05755569	.05485798	.04823412	.05527254	.36014741
3	.04421419	.07438239	.04085574	.06488827	.37771377
5	.05277828	.09194981	.06939897	.05507219	.28581381
8	.05334671	.05672108	.05582892	.04533684	.17111431
12	.02716049	.03361945	.03269057	.01594864	.10038344
24	.01512156	.00697510	.00523164	.01333474	.00827607
36	.00220117		.00383062		

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	20.46663937	2.92380562	3.92419085
1	.80200000	2.24500551	15.21927903	1.82445472	3.39718483
2	.65499999	1.74235224	11.42475769	1.14028421	2.69958169
3	.55199999	1.38454708	8.65015313	.71048475	2.29625180
5	.41999999	.92663247	5.15805307	.27483775	1.66269101
8	.28999999	.54060203	2.62344883	.06724751	1.03417092
12	.18600000	.32555936	1.28375812	.00877143	.67506038
24	.04100000	.07304728	.25070001		.14362655
36	.00700000	.01243573	.03034774		.01243573

RUN NUMBER 636	HISTORIES 1000	ENERGY SET 2	ANGLE SET 0°	SLANT MFP 16.964728
INC. ENERGY 14.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 20.466639

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.001000	.000671	.000061	.026000	.017479	.001598
2				.030000	.017961	.001514
3				.013000	.008012	.000927
4	.001000	.000422	.000078	.012000	.008620	.001601
5	.001000	.000671	.000192	.035000	.021879	.006251
6	.002000	.000771	.000342	.035000	.028325	.012544
7				.063000	.044370	.025354
8	.002000	.001021	.000627	.059000	.049511	.030414
9				.051000	.036425	.026538
10				.155000	.136449	.132550

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.000705	.054000	.103132	.021652
2				.046000	.087853	.017305
3	.001000	.001910	.000357	.064000	.122231	.032894
4	.001000	.001910	.000150	.069000	.131780	.030434
5				.033000	.063025	.024382
6	.002000	.003820	.001154	.029000	.055386	.023236
7				.048000	.091673	.038855
8	.001000	.001910	.000117	.055000	.105042	.047464
9				.012000	.022918	.029574
10				.018000	.034377	.039366
11				.013000	.024828	.035877
12				.038000	.072574	.115973

(S+U) NO. TRAN. FACT. .007000	(S+U) DOSE TRAN. FACT. .001300	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .007000	SCAT. NO. FLX. TRAN. FACT. .003557	SCAT. DOSE TRAN. FACT. .001300	SCAT. EGY. TRAN. FACT. .00046
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NUMBER REFL. FACT. .479000	NO. FLUX REFL. FACT. .369031	DOSE REFL. FACT. .239292	ENERGY REFL. FACT. .015593	ENERGY ABS. FACTOR .843606	NUMBER ABS. FACTOR .253000	NO. CUTOFF FACTOR .261000
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7006.805236	MEAN ENERGY SCAT. TR. NT. .091859	MEAN ENERGY REFL. NT. .455742
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
33-5	.50000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
2	.12935305	.03064299	.11842578	.05607864	.08050378
3	.19957686	.06260619	.26241072	.10403981	.17493767
5	.27708567	.08567500	.29847387	.09525855	.12519136
6	.31536797	.05898647	.20217977	.09951418	.14340457
8	.27310552	.04910844	.21852716	.05827426	.09582142
12	.24293233	.03350287	.13964674	.03248181	.05592341
18	.11364144	.01217634	.05410040	.00935107	.01615074
24	.02660570	.00312147	.00864271	.00139262	.00098029
	.00182237	.00030269	.00079057	.00009827	.00013265
INCHES	6	7	8	9	10
2	.06924276	.08202425	.06785402	.19665762	.35609502
3	.13892768	.16101488	.15099411	.34443894	.54641955
5	.08892686	.16290419	.11608759	.29824130	.33393075
6	.07841756	.07813928	.05343176	.11538435	.14782146
8	.06268977	.05603159	.04706239	.10432313	.07434103
12	.03205607	.03588793	.01612479	.04063954	.01819812
18	.00748895	.00617282	.00235071	.00755017	.00337321
24	.00071745	.00084802	.00024215	.00023830	.00006621
	.00002690	.00013796	.00001022		

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
2	.00987407	.01465094	.03535987	.04026116	.05310210
3	.03747815	.00900259	.07966267	.02201767	.05440991
5	.07366360	.02083563	.06772555	.04141903	.08985289
6	.08323962	.01810782	.04037816	.03476727	.05361096
8	.08726232	.01436917	.07385909	.01827306	.03566986
12	.05892590	.00522526	.03114019	.00542897	.01061149
18	.01516146	.00220277	.00595200	.00107015	.00072582
24	.00189237	.00030269	.00079057	.00009827	.00013265
INCHES	6	7	8	9	10
2	.04886264	.05685531	.04855670	.15266435	.40142443
3	.04231458	.05776032	.05776639	.14000671	.29011986
5	.03546761	.05083167	.02667689	.06578227	.11611576
6	.03335198	.03472881	.02716950	.06281627	.05810707
8	.01983236	.02312586	.01205956	.03412602	.01509948
12	.00592061	.00421840	.00157492	.00587664	.00308557
18	.00057138	.00070497	.00017634	.00011157	.00006621
24	.00002690	.00013796	.00001022		

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	3.39409710	1.41420712	2.56698683
2	.63399999	1.09636995	2.03976308	.23475840	2.38012481
3	.51899999	.89389073	1.47297577	.09475188	1.97652703
5	.36999999	.60392719	.73798771	.01555627	1.30820365
6	.30274988	.50193429	.54785158	.00565682	1.04494154
8	.20249992	.33367679	.30390744		.64739360
12	.07949997	.13200795	.10038132		.23235586
18	.01581248	.02674267	.01779040		.04285490
24	.00199997	.00339163	.00220748		.00339163

RUN NUMBER 33-S	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 04	SLANT MFP 21.5524773
INC. ENERGY .5000000	COS. THETA .7071100	CUTOFF EGY .0000101	INC.FLX/NT 1.4142071	INC.DSE/NT 3.3940971

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
5.0800	2.5400	5.0800	2.5400	5.0800	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.0011641	.0014442	.0003912	.0685625	.0914668	.0247723
2	.0001719	.0002200	.0000568	.0158125	.0216680	.0055976
3	.0004375	.0005723	.0001407	.0707500	.0837401	.0205861
4	.0000703	.0000791	.0000195	.0257500	.0396538	.0097482
5	.0000938	.0000932	.0000276	.0390000	.0569250	.0168404
6	.0000234	.0000204	.0000077	.0382500	.0489622	.0185648
7	.0000313	.0000830	.0000415	.0370625	.0580002	.0290001
8	.0000078	.0000068	.0000040	.0330000	.0479802	.0279885
9				.1072500	.1390586	.1042940
10				.1832500	.2517984	.2308151

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0004453	.0008505	.0001633	.0856875	.1636507	.0644319
2	.0001797	.0003432	.0000828	.0856250	.1635313	.0847904
3	.0003125	.0005968	.0001382	.0736250	.1406131	.0651636
4	.0003203	.0006117	.0001474	.0890000	.1699771	.0840657
5	.0001406	.0002686	.0000999	.0540000	.1031322	.1003723
6	.0001719	.0003283	.0001206	.0455000	.0868984	.0629697
7	.0001484	.0002835	.0001079	.0670000	.1279603	.1067606
8	.0001172	.0002238	.0000831	.0590000	.1126814	.0952676
9	.0000313	.0000597	.0000636	.0100000	.0190986	.0401068
10	.0000469	.0000895	.0001134	.0142500	.0272154	.0625234
11	.0000391	.0000746	.0000829	.0160000	.0305577	.0661346
12	.0000469	.0000895	.0001126	.0190000	.0362872	.0998177

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0020000	.0006891		.0020000	.0025191	.0006891	.0000286

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.6186875	.8392532	.4882070	.2577905	.7421699	.0017656	.3775469

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
24.02205236	.0071396	.2083366

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
34-S	.50000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
2	.09867827	.01277202	.13061925	.04939362	.09782598
3	.17939288	.04161679	.24291771	.08831292	.11690197
5	.17290496	.06208454	.19139630	.07019021	.09595327
6	.19669591	.04405250	.15233821	.03912077	.06817271
8	.16667568	.05019532	.13519611	.03259163	.04632017
12	.12469398	.01707037	.08361331	.01962342	.03705585
18	.06793106	.00893617	.03870459	.00587749	.00667257
24	.01454085	.00126289	.00520190	.00096711	.00122339
24	.00129134	.00008507	.00036844	.00004443	.00004608

INCHES	6	7	8	9	10
2	.04520200	.08175402	.09795263	.22235787	.79825677
3	.09525400	.12846637	.09025119	.32669357	.43258686
5	.06254612	.10768851	.08576059	.20246664	.22846646
6	.03856291	.04973517	.05062905	.08893348	.04700824
8	.03203635	.03041520	.02547453	.06080426	.03003616
12	.02111530	.01628544	.02118619	.02154891	.00865248
18	.00318319	.00757652	.00422312	.00578506	.00090667
24	.00024827	.00037878	.00008407	.00074603	
24	.00004803	.00005940	.00009008	.00001685	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
2	.00494452	.00499775	.04512386	.02142584	.04154524
3	.02696390	.01208602	.05836024	.03525768	.03226952
5	.05553683	.01647278	.06705589	.02061720	.04112827
6	.05884424	.01810061	.06717861	.02000937	.02451557
8	.05390096	.00969577	.04179013	.01453272	.02129472
12	.03042658	.00415706	.02505725	.00373949	.00420783
18	.00794553	.00067499	.00341650	.00073561	.00093040
24	.00129134	.00008507	.00036844	.00004443	.00004608

INCHES	6	7	8	9	10
2	.03942322	.04810947	.02460666	.14917850	.35064074
3	.02522104	.04708966	.04082679	.12041221	.19057777
5	.02351148	.02679206	.03069577	.05960311	.03804450
6	.01792263	.01994375	.01492421	.04361212	.02729687
8	.01252826	.01171959	.01211860	.01733015	.00865248
12	.00220257	.00543761	.00236179	.00546809	.00090667
18	.00014219	.00030476		.00069293	
24	.00004803	.00005940	.00009008	.00001685	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	7.01713350	2.92380562	4.45351626
2	.42499999	.80016714	1.43028518	.07017134	1.81256560
3	.33099999	.59783626	.89527627	.00877143	1.28822901
5	.23074991	.37945788	.41821605		.77524895
6	.19249992	.31234798	.31944728		.60974542
8	.12849995	.20356339	.18227268		.37084526
12	.05274998	.08396494	.06604680		.14979642
18	.00949999	.01484291	.01032350		.02465328
24	.00125779	.00204973	.00142774		.00204973

RUN NUMBER 34-S	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 44.5587165
INC. ENERGY .5000000	COS. THETA .3420200	CUTOFF EGY .0000101	INC.FLX/NT 2.9238056	INC.DSE/NT 7.0171334

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
5.0800	2.5400	5.0800	2.5400	5.0800
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.0007578	.0004475	.0001212	.0490703	.0337499	.0091406
2	.0000703	.0000280	.0000072	.0067500	.0043683	.0011284
3	.0002500	.0001296	.0000319	.0673125	.0446744	.0109825
4	.0000313	.0000165	.0000041	.0305000	.0168936	.0041530
5	.0000391	.0000159	.0000047	.0517500	.0334584	.0098981
6	.0000313	.0000165	.0000063	.0250000	.0154600	.0058619
7	.0000469	.0000231	.0000116	.0430000	.0279615	.0139808
8	.0000156	.0000316	.0000184	.0442500	.0335018	.0195427
9	.0000156	.0000055	.0000041	.1095000	.0760508	.0570381
10				.3272500	.2730198	.2502681

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0002578	.0004924	.0000522	.0892500	.1704546	.0351093
2	.0002344	.0004476	.0000502	.0755625	.1443134	.0364156
3	.0001875	.0003581	.0000429	.0846328	.1616364	.0411968
4	.0001484	.0002835	.0000340	.1121875	.2142618	.0586536
5	.0001016	.0001940	.0000381	.0685000	.1308250	.0621051
6	.0001094	.0002089	.0000376	.0477500	.0911956	.0345224
7	.0000781	.0001492	.0000292	.0682500	.1303476	.0602530
8	.0000703	.0001343	.0000241	.0977500	.1866883	.0870439
9	.0000156	.0000298	.0000258	.0210000	.0401070	.0687100
10	.0000234	.0000447	.0000245	.0140000	.0267380	.0282052
11	.0000078	.0000149	.0000176	.0330000	.0630252	.0943998
12	.0000234	.0000447	.0000238	.0425000	.0811688	.1229390

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0012578	.0002094		.0012578	.0007142	.0002094	.0000400

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.7543828	.5591386	.3819943	.3947962	.6051495	.0005078	.2438516

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
24.02205236	.0159077
	.2616683

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
15-S	1.00000000	1.00000000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
	.12738527	.13190913	.06301821	.02981636	.03275754
2	.21756384	.25663694	.11475040	.05969239	.07642616
3	.26578294	.26634291	.09017107	.06196230	.10839909
5	.29844131	.22082954	.09220867	.05248881	.08924752
6	.28898141	.22941836	.09631557	.04130890	.07823140
8	.23423551	.17111868	.05741646	.03765588	.02438851
12	.14009119	.10386963	.02380495	.00942179	.01342661
18	.04111043	.01905868	.00734899	.00321040	.00269358
24	.00651836	.00307986	.00043294	.00039560	.00006433

INCHES	6	7	8	9	10
	.01653028	.06628534	.03946829	.19244657	.51271056
2	.09333396	.12948107	.08951385	.40022634	.56546982
3	.08542409	.13712273	.08708325	.28379181	.35651910
5	.05317875	.10201219	.05089139	.22384586	.17143786
6	.04193591	.09411930	.06217358	.17744753	.12587878
8	.02717296	.05815284	.03319980	.08473754	.07420036
12	.01477030	.02216880	.01041439	.02145388	.01717771
18	.00141540	.00299657	.00409547	.00460340	.00151539
24		.00049071	.00014271	.00079513	.00013495

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
	.00599974	.02177695	.02841907	.00679919	.04180880
2	.00873377	.05840272	.03402682	.02914948	.04252621
3	.04540450	.06003584	.04044130	.02196668	.04339293
5	.05189272	.07383375	.04514441	.01887272	.03413081
6	.06883825	.08077972	.02566306	.01848436	.01425218
8	.05492679	.04879476	.01643613	.00499023	.00957361
12	.02207643	.00951576	.00454354	.00216031	.00146764
18	.00651836	.00307986	.00043294	.00039560	.00006433

INCHES	6	7	8	9	10
	.02992548	.03862451	.01939794	.14563333	.33854310
2	.03404948	.04068542	.03055630	.14952090	.26139061
3	.01275958	.04644303	.02899079	.12093802	.13626635
5	.01482355	.03881027	.03732573	.10979464	.09809434
6	.01354537	.02966090	.01586894	.05857232	.04943764
8	.00551086	.01442731	.00490023	.01678383	.01472699
12	.00050444	.00074389	.00333911	.00333387	.00144084
18		.00049071	.00014271	.00079513	.00013495

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./T.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	3.79999999	1.00000000	2.16790404
2	.63299999	.92892811	2.82898573	.25200001	2.25509476
3	.53199999	.81504171	2.16803186	.12600000	1.86859929
5	.37599999	.58763903	1.27020344	.03100000	1.38558190
6	.32599999	.53772294	1.04773093	.01500001	1.25081073
8	.24049999	.37910273	.60219696	.00399999	.80627853
12	.11550000	.19107075	.23330600		.37659926
18	.03049999	.04912584	.05049537		.08804832
24	.00731249	.01205459	.01056871		.01205459

RUN NUMBER 15-8	HISTORIES 1000	ENERGY SET 2D	ANGLE SET 2541	SLANT MFP 16.549650
INC. ENERGY 1.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 3.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
5.0800	2.5400	5.0800	2.5400	5.0800	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003625	.006821	.001149	.058000	.127385	.021454
2	.002000	.003134	.000487	.068750	.131909	.020481
3	.000250	.000596	.000111	.032000	.063018	.011774
4	.000312	.000398	.000095	.015000	.029816	.007140
5	.000062	.000063	.000020	.017500	.032758	.010344
6				.011500	.016530	.006090
7	.000312	.000666	.000316	.035000	.066285	.031398
8	.000125	.000144	.000083	.019000	.039468	.022850
9	.000562	.000803	.000591	.097000	.192447	.141803
10	.000062	.000136	.000122	.292000	.512711	.458741

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.000750	.002865	.000543	.056000	.213904	.145367
2	.000937	.003581	.000862	.045500	.173797	.112577
3	.000812	.002586	.000704	.061500	.195760	.135467
4	.000625	.001989	.000505	.049500	.157563	.117357
5	.000750	.002387	.001090	.046750	.148809	.111319
6	.000500	.001592	.000347	.045000	.143239	.117742
7	.000375	.001194	.000534	.053500	.170295	.154221
8	.000625	.001194	.000426	.076000	.145149	.144567
9	.000750	.001432	.000705	.064000	.122231	.140536
10	.000375	.000716	.000445	.051250	.097880	.151357
11	.000250	.000477	.000206	.043250	.082601	.123982
12	.000562	.000269	.000322	.053500	.025544	.081772

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.007312	.002974		.007312	.012761	.002974	.000600

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ARS. FACTOR	NUMBER ARS. FACTOR	NO. CUTOFF FACTOR
.645750	1.212328	.732076	.327482	.671907	.002250	.344687

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
.082088	.507134

3803.402618

RUN NUMBER INC.ENERGY COS. THETA CUTOFF EGY. ENERGY SET
35-3 1.00000000 .34202000 .00001010 **2D**

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
	.07597841	.10514261	.06197613	.04087102	.06249938
2	.16859622	.17881090	.08910813	.05710081	.09001301
3	.19746659	.16738825	.10352907	.06658211	.09296948
5	.17890946	.17351750	.06440035	.02874098	.05357180
6	.15413186	.13137695	.05659179	.02279022	.03176063
8	.13885437	.08909298	.03755417	.02010520	.02460236
12	.07219327	.04450213	.01651871	.00849203	.01001776
18	.02173451	.01172802	.00280378	.00117881	.00118470
24	.00219189	.00115432	.00027791	.00011790	.00010384

INCHES	6	7	8	9	10
	.05733826	.08389114	.08729603	.27665448	.94557703
2	.05849225	.08388946	.06997639	.27516090	.35746588
3	.04227092	.10402593	.04518356	.23140361	.23250325
5	.03404900	.07455222	.03373127	.11560487	.04636419
6	.03189040	.06079393	.02017491	.07591491	.02968834
8	.02018304	.03814211	.02268067	.04303096	.01080611
12	.00531749	.00747531	.00246517	.00803567	.00264782
18	.00050473	.00103042	.00072748	.00221770	.00030742
24	.00004189	.00001820	.00002510	.00019740	.00001749

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
2	.00367848	.01690424	.03384110	.01422058	.03603471
3	.01636728	.03753514	.03214650	.02579145	.05446215
5	.03376676	.04454831	.03023227	.01439898	.03028507
6	.04428422	.05386625	.02499822	.01396308	.01571598
8	.04755702	.04041646	.02323616	.01034506	.00908518
12	.03227577	.02167024	.01146101	.00490009	.00784670
18	.00967988	.00666284	.00179894	.00093634	.00071687
24	.00219189	.00115432	.00027791	.00011790	.00010384

INCHES	6	7	8	9	10
2	.02238231	.04590694	.0359737	.15609569	.30329752
3	.02260377	.04434034	.02235550	.15597738	.19756215
5	.01144389	.05022561	.01689748	.08188174	.04355151
6	.01591579	.03499547	.01278389	.05421078	.02748119
8	.01391955	.01964240	.00660004	.03550907	.00935792
12	.00267424	.00557491	.00086970	.00664107	.00240039
18	.00022477	.00069666	.00044337	.00168149	.00030742
24	.00004189	.00001820	.00002510	.00019740	.00001749

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	11.11046136	2.92380562	4.63384064
2	.36899999	.71806364	1.95609534	.04970470	1.47833866
3	.31799999	.61898928	1.43875325	.00584760	1.28917037
5	.21399999	.35723162	.64255368		.80344165
6	.18049993	.29821487	.46947004		.61511395
8	.12799995	.21571286	.28938346		.44505197
12	.05599998	.09631412	.09726973		.17766935
18	.01331248	.02314858	.02132350		.04341755
24	.00245311	.00414594	.00322594		.00414594

RUN NUMBER 35-S	HISTORIES 1000	ENERGY SET 20	ANGLE SET 00	SLANT MFP 48.3879598
INC. ENERGY 1.0000000	COS. THETA .3420200	CUTOFF EGY .0000101	INC.FLX/NT 2.9238056	INC.DSE/NT 11.1104613

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)				
5.0800	2.5400	5.0800	2.5400	5.0800
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.0013125	.0007737	.0001303	.0401250	.0259861	.0043766
2	.0006875	.0004345	.0000674	.0536875	.0359609	.0055834
3	.0001094	.0001079	.0000201	.0345000	.0211971	.0039605
4	.0000781	.0000396	.0000095	.0215000	.0139787	.0033475
5	.0000781	.0000357	.0000113	.0350000	.0213760	.0067503
6	.0000313	.0000132	.0000049	.0287500	.0196108	.0072250
7	.0000156	.0000066	.0000031	.0422500	.0286924	.0135911
8	.0000156	.0000105	.0000061	.0340000	.0298570	.0172856
9	.0001094	.0000728	.0000537	.1105000	.0946214	.0697210
10	.0000156	.0000066	.0000059	.3910000	.3234063	.2893635

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0005000	.0009549	.0000691	.0963125	.1839429	.0398498
2	.0003750	.0007162	.0000750	.1088750	.2079354	.0605733
3	.0003594	.0006864	.0000662	.0966875	.1846591	.0489282
4	.0003906	.0007460	.0000561	.0793750	.1515947	.0367488
5	.0000625	.0001194	.0000135	.0720625	.1376289	.0676290
6	.0002031	.0003879	.0000590	.0626875	.1197240	.0598852
7	.0001719	.0003283	.0000454	.0600000	.1145913	.0392901
8	.0001719	.0003283	.0000365	.0780625	.1490880	.0597536
9	.0000781	.0001492	.0000511	.0377500	.0720970	.1147273
10	.0000625	.0001194	.0000402	.0335000	.0639801	.0918220
11	.0000313	.0000597	.0000196	.0282500	.0539534	.0688049
12	.0000469	.0000895	.0000648	.0377500	.0720970	.1164279

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0024531	.0003123		.0024531	.0015011	.0003123	.0001195

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.7913125	.6146867	.4212047	.4467593	.5531065	.0015625	.2046719

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
38.03405236	.0487165	.5645801

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
23-S	2.00000000	1.00000000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
2	.09036066	.11647968	.07028833	.04565018	.05054826
3	.17439187	.19880301	.13799271	.12555843	.10366009
5	.22808632	.21420454	.10818339	.14268872	.08255218
6	.22205969	.23392327	.14258973	.14864250	.10839270
8	.28063364	.27303553	.16632472	.13601667	.09372331
12	.25697565	.22386906	.12252740	.10461078	.06345169
18	.22149482	.14702290	.08593877	.06362198	.04273992
24	.09789086	.06206542	.03121956	.02634937	.01746754
	.01593917	.01052913	.00522045	.00360702	.00344844

INCHES	6	7	8	9	10
2	.01114016	.05477472	.05083841	.14744168	.37274493
3	.05792802	.12310327	.08910782	.27329773	.50574792
5	.06062158	.12516543	.12823530	.27896282	.49792992
6	.03906939	.14670469	.11771311	.23079435	.39002655
8	.04940984	.13589301	.09423870	.21541374	.38369860
12	.04442401	.09984656	.08085408	.18621420	.26469754
18	.03085941	.06325708	.04479590	.08701419	.10772993
24	.01196574	.02702518	.01669757	.02644382	.02723902
	.00160353	.00478808	.00241872	.00398692	.00568877

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
2	.00222181	.00922536	.00472731	.02450834	.01161741
3	.01054864	.01706648	.01229900	.03744795	.02321479
5	.02415164	.03759116	.03810010	.04941196	.03338885
6	.03976305	.05855940	.04102183	.03535674	.02789959
8	.05037652	.04918827	.03872736	.03733101	.02052805
12	.06342618	.04168397	.03790569	.02241840	.01657232
18	.03473487	.02446370	.01342792	.01277853	.00840033
24	.01593917	.01052913	.00522045	.00360702	.00344844

INCHES	6	7	8	9	10
2	.01623188	.01099775	.02677843	.06904482	.26310809
3	.00768129	.01966767	.03049749	.08566818	.27213519
5	.00458126	.03916146	.03934846	.08452196	.25907021
6	.01145154	.04435679	.03156235	.08238760	.23801350
8	.01348910	.03580681	.02879988	.08245109	.18467993
12	.01300547	.02534843	.01937954	.04795340	.07395866
18	.00621567	.01273193	.00962231	.01629583	.02109145
24	.00160353	.00478808	.00241872	.00398692	.00568877

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.29230769	1.00000000	1.95525615
2	.79399999	1.01246121	4.06818642	.57400001	2.36359087
3	.71399999	.95022668	3.64155261	.43399999	2.30063020
5	.58899999	.85832705	2.93788785	.24900000	2.02891599
6	.53499999	.79837240	2.57851924	.18799999	2.01638776
8	.42949987	.64937803	1.96991493	.10800000	1.55547098
12	.26424991	.39665206	.96787251	.03499999	.92947489
18	.10624989	.16576253	.33862154	.00599999	.35036410
24	.03668736	.05823023	.09991843	.00100001	.05823023

RUN NUMBER 23-S	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 254i	SLANT MFP 6.672268
INC. ENERGY 2.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC. FLX/NT 1.000000	INC. DSE/NT 4.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (AREA 7)

REGION THICKNESSES (CENTIMETERS)					
5.0800	2.5400	5.0800	2.5400	5.0800	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.009969	.016800	.002622	.045703	.090361	.014105
2	.006531	.010917	.001571	.061281	.116480	.016762
3	.003109	.005571	.001101	.032734	.070288	.013886
4	.002156	.003740	.001186	.025953	.045650	.014474
5	.001875	.003598	.001580	.027516	.050548	.022192
6	.000922	.001618	.000868	.006594	.011140	.005978
7	.003016	.004936	.003371	.029203	.054775	.037407
8	.001500	.002566	.002128	.027937	.050838	.042159
9	.002531	.004278	.004069	.075687	.147442	.140249
10	.004078	.005850	.005850	.205750	.372745	.372745

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004406	.016831	.008333	.049594	.189434	.134417
2	.003422	.013071	.005735	.031922	.121932	.084738
3	.003859	.012285	.006051	.042531	.135381	.097179
4	.003375	.010743	.005477	.050625	.161144	.125712
5	.003125	.009947	.005683	.048953	.155822	.143142
6	.003000	.009549	.005344	.051203	.162984	.152978
7	.002812	.008952	.005012	.038453	.122400	.129277
8	.003172	.006058	.003495	.071156	.135898	.155123
9	.002875	.005491	.004034	.044281	.084571	.106799
10	.002172	.004148	.003434	.039375	.075200	.101969
11	.001297	.002477	.002398	.019875	.037958	.066937
12	.002172	.001037	.002391	.050391	.024060	.092310

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.036687	.025346	.001000	.035687	.059875	.024346	.007598

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.538359	1.010267	.679957	.250426	.740966	.002047	.422906

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.425782	.930331

4104.102618

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
889	.10000000	1.00000000	.00001010	26

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.16605722	.04638840	.19527997	.05871469	.10990221
2	.36773996	.06684423	.43544717	.13663717	.26130998
3	.46961606	.06935401	.48118287	.14965692	.32619790
5	.47910212	.11574264	.49914805	.15875968	.26021838
8	.37443232	.08224879	.27182197	.09568750	.12657298
12	.25860779	.03467852	.12600874	.03268435	.05632780
18	.12026164	.01736304	.05339728	.00656829	.01253606
24	.00651918	.00107469	.00673641	.00311118	
			.00104661		
INCHES	6	7	8	9	10
1	.24692621				
2	.34827861				
3	.34955038				
5	.28573767				
8	.16274582				
12	.04435182				
18	.00555358				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01468116	.00654810	.10378394	.04867308	.15930816
2	.05133768	.01236817	.13913888	.08529114	.20790219
3	.11675420	.01590364	.17528558	.08042136	.16235408
5	.14222860	.04290687	.13602891	.05786378	.09936941
8	.10922479	.01795833	.07473463	.02817213	.03709733
12	.04525597	.01241396	.03976693	.00656829	.01112366
18	.00531019	.00107469	.00673641	.00311118	
24			.00104661		
INCHES	6	7	8	9	10
1	.20025001				
2	.23176427				
3	.22474594				
5	.12995254				
8	.04081952				
12	.00555358				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	1.09999999	1.00000000	1.78336594
2	.86599999	1.09624445	1.04022408	.56299999	2.17925711
3	.74099999	1.04380233	.90669260	.31600001	2.16155814
5	.62699999	.95346481	.77639698	.17799999	1.97670855
8	.41799999	.66435011	.49408218	.05600001	1.16950938
12	.20299999	.31800672	.22104497	.01000000	.56265902
18	.06800000	.12168240	.07844899	.00100001	.21667989
24	.01000000	.01623247	.01010678		.01744147
	.00100000	.00104661	.00062796		.00104661

RUN NUMBER 669	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 254I	SLANT MFP 13.811239
INC. ENERGY .100000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 1.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.101000	.166057	.098125
2				.026000	.046388	.026146
3	.001000	.001065	.000571	.110000	.195280	.104741
4				.036000	.058715	.031492
5				.057000	.109902	.070937
6				.101000	.246926	.204275
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.038000	.145149	.094891
2	.001000	.003820	.002181	.033000	.126050	.079784
3				.038000	.120957	.083408
4				.041000	.130507	.095267
5				.029000	.092310	.074619
6				.032000	.101859	.081957
7				.024000	.076394	.068775
8				.036000	.068755	.068457
9				.046000	.087853	.104632
10				.039000	.074484	.099617
11				.039000	.074484	.131483
12				.036000	.017189	.072299

(S+U) NO. TRAN.FACT. .001000	(S+U) DOSE TRAN. FACT. .000571	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT.NO.FLX TRAN. FACT. .001065	SCAT. DOSE TRAN. FACT. .000571	SCAT. EGY. TRAN. FACT. 000006
NUMBER REFL. FACT. .431000	NO. FLUX REFL. FACT. .823269	DOSE REFL. FACT. .535717	ENERGY REFL. FACT. .011662	ENERGY ABS. FACTOR .883316	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .568000
1102.202618		MEAN ENERGY SCAT.TR.NT. 000582	MEAN ENERGY REFL. NT. 002706			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
670	.10000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.17176355	.05407848	.24657102	.09590647	.14294099
2	.33643462	.09901852	.45289831	.18832371	.30791493
3	.36151771	.11381797	.49076062	.17630078	.32472030
5	.41709953	.14845183	.46380317	.11677172	.22391309
8	.38837731	.07407012	.28849378	.08858880	.14157699
12	.23317551	.04524569	.15208252	.02436951	.06348459
18	.09815022	.01019617	.05673816	.00568422	.01547266
24	.00300916		.00229222	.00311118	
			.00104661		

INCHES	6	7	8	9	10
1	.22459501				
2	.40637722				
3	.34383044				
5	.26225505				
8	.10319505				
12	.03104498				
18	.00100171				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.03137105	.01023263	.09813988	.06596841	.17811483
2	.02823042	.02431331	.16659985	.08989330	.20873397
3	.12585613	.03031378	.19478569	.08582664	.15873167
5	.14424049	.02634161	.15384396	.05812520	.09979923
8	.10474111	.02855446	.10296830	.02008344	.05412933
12	.05319886	.00588286	.02804983	.00568422	.01084101
18	.00300916		.00229222	.00311118	
24			.00104661		

INCHES	6	7	8	9	10
1	.25094985				
2	.24092674				
3	.20762701				
5	.08925381				
8	.02810550				
12	.00100171				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.15469441	1.27016384	1.15469441	2.05093177
2	.84599999	1.22944426	1.15967350	.59466761	2.38563492
3	.70199999	1.06469162	.91568797	.30599402	2.11694184
5	.59699999	.96017937	.76220662	.15703844	1.78933283
8	.39099999	.61317330	.44209917	.04156900	1.12587106
12	.19800000	.34320092	.22945184	.00461877	.55402157
18	.06900000	.10465849	.06604869		.18724314
24	.00600000	.00841257	.00514193		.00841257
	.00100000	.00104661	.00062796		.00104661

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
670	1000	2E	04	15.947761
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.100000	.866030	.000010	1.154694	1.270164

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1				.097000	.148752	.087899
2				.029000	.046834	.026397
3	.001000	.000885	.000474	.131000	.213538	.114534
4				.043000	.083058	.044549
5				.067000	.123791	.079902
6				.092000	.194506	.160909
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000906	.067000	.127960	.069748
2				.064000	.122231	.080045
3				.064000	.122231	.080286
4				.052000	.099312	.065313
5				.032000	.061115	.063267
6				.037000	.070665	.074392
7				.042000	.080214	.085251
8				.043000	.082124	.089559
9				.009000	.017189	.057722
10				.017000	.032468	.114999
11				.014000	.026738	.088317
12				.018000	.034377	.113131
(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.001000	.000475		.001000	.000885	.000475	.000006
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.459000	.810479	.514191	.012012	.879808	.002000	.538000
		MEAN ENERGY SCAT. TR. NT.		MEAN ENERGY REFL. NT.		
1102.205236		.000637		.002617		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
871	.10000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.16185702	.02673951	.28485800	.12078350	.18777700
2	.38560125	.05575021	.42088855	.19738759	.35219347
3	.37564311	.06954516	.50840136	.19375368	.32040309
5	.42608177	.08615732	.42417456	.16931236	.19866542
8	.34310069	.07784966	.25783979	.06572438	.12849217
12	.13684583	.03729531	.10199183	.01953711	.03772684
18	.06708985	.01474602	.04272866	.00592442	.00174873
24	.00979655		.00225144	.00208486	
	.00118379				

INCHES	6	7	8	9	10
1	.27257152				
2	.47063819				
3	.37401129				
5	.24152147				
8	.09993044				
12	.00796636				
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.02097968	.00429262	.11296736	.07133782	.16884623
2	.03707518	.02849993	.16618608	.08993893	.24476800
3	.12611413	.03327708	.20872287	.09508643	.13292925
5	.12290334	.03106304	.15567282	.04918764	.08840649
8	.07645135	.01721511	.07637402	.01155215	.02640412
12	.04109668	.00584780	.02265748	.00592442	.00174873
18	.00979655		.00225144	.00208486	
24	.00118379				

INCHES	6	7	8	9	10
1	.29251519				
2	.25609825				
3	.18366985				
5	.09284571				
8	.00796636				
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.41420712	1.55562783	1.41420712	2.45001416
2	.78999999	1.29743264	1.23556843	.62649377	2.50895301
3	.65199999	1.09975096	.93215509	.27718460	2.11894229
5	.52499999	.90283563	.69969906	.12303603	1.66894892
8	.34299999	.56412057	.40390611	.02404152	.99697865
12	.13800000	.21737732	.13966162	.00141422	.34277748
18	.04600000	.07727511	.04831454		.13223769
24	.00700000	.01413285	.00846338		.01413285
	.00100000	.00118379	.00078611		.00118379

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
671	1000	2E	0φ	19.531953
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.100000	.707110	.000010	1.414207	1.555628

SLAB CONFIGURATION NEVADA TEST SITE SOIL (80% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.001000	.000873	.000516	.090000	.114451	.067630
2				.013000	.018908	.010657
3				.144000	.201426	.108038
4				.049000	.085407	.045809
5				.083000	.132779	.085703
6				.125000	.192738	.159447
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.079000	.150879	.068336
2				.054000	.103132	.056206
3	.001000	.001910	.000985	.058000	.110772	.061084
4				.065000	.124141	.070644
5				.043000	.082124	.072161
6				.052000	.099312	.088544
7				.037000	.070665	.063535
8				.048000	.091673	.079847
9				.012000	.022918	.070876
10				.012000	.022918	.064050
11				.015000	.028648	.073853
12				.029000	.055386	.142406

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.001000	.000516		.001000	.000873	.000516	

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.504000	.745709	.477284	.015683	.843155	.002000	.493000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
1102.205236	.003112

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
672	.10000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.14183099	.02968551	.29983752	.11628750	.34271752
2	.23061201	.07440741	.44735224	.21547627	.36164240
3	.38135172	.09197223	.37861041	.12870918	.26154366
5	.42278859	.08101232	.33513831	.09472443	.17668260
8	.27274294	.04421403	.18153110	.03587550	.06409464
12	.14100013	.02622209	.07367014	.00770855	.01315363
18	.03355531	.01701666	.01904661	.00291613	.00110620
24	.01534146	.00227855	.00208486		.00118943

INCHES	6	7	8	9	10
1	.45847049				
2	.53564851				
3	.26878599				
5	.13331625				
8	.03169213				
12	.00431348				
18	.00109861				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01588963	.00890150	.14403041	.10075408	.19164812
2	.05583796	.03881812	.19415259	.08534275	.17820495
3	.12067028	.03259949	.16297428	.07221261	.13885229
5	.14207596	.03116419	.11021204	.02844777	.06057304
8	.09223810	.01234621	.04600558	.00770855	.01107302
12	.02443903	.00792765	.01418233	.00291613	.00110620
18	.00501077	.00227855	.00208486		.00118943
24					

INCHES	6	7	8	9	10
1	.40032155				
2	.22965082				
3	.12313949				
5	.03169213				
8	.00431348				
12	.00109861				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	3.21618617	2.92380562	4.25142168
1	.63199999	1.40537314	1.30572121	.54382784	2.40896668
2	.48999999	.88141658	.69439560	.09940940	1.61038259
3	.39599999	.66799126	.48130580	.01754281	1.26120535
5	.24499999	.40416513	.26862058		.63015035
8	.10900000	.17368494	.11063553		.26606802
12	.03200000	.05166994	.03273040		.07473952
18	.00600000	.01056361	.00658909		.02089430
24					

RUN NUMBER 872	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 40.381378
INC. ENERGY .100000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 3.216186

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.080000	.048509	.028664
2				.018000	.010153	.005723
3				.157000	.102550	.055004
4				.051000	.039773	.021333
5				.132000	.117216	.075658
6				.174000	.156806	.129721
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.082000	.156608	.034770
2				.051000	.097403	.026578
3				.068000	.129870	.035613
4				.087000	.166157	.043578
5				.036000	.068755	.028692
6				.037000	.070665	.031722
7				.062000	.118411	.050578
8				.084000	.160428	.071112
9				.017000	.032468	.048648
10				.008000	.015279	.021602
11				.025000	.047746	.060450
12				.055000	.105042	.150369

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.612000	.475007	.316103	.022078	.779208		.388000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.205236	.003608

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
673	.25000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.13879941	.01688650	.13574501	.07443308	.08755680
1	.19695357	.03737294	.29234985	.14297329	.15677461
2	.31278957	.04925960	.34373967	.17736708	.18049223
3	.34518025	.06482085	.39374186	.10537962	.16720670
5	.38729302	.08161009	.27984280	.09389021	.11609850
8	.29248801	.02501321	.11272151	.03227656	.03187644
12	.11272978	.01364265	.03864391	.00908118	.01027006
18	.00670483	.00190774	.00626892		.00818653
24			.00155308		

INCHES	6	7	8	9	10
	.06064052	.12667942	.36259242		
1	.14784168	.22219739	.51600245		
2	.16031737	.22136062	.45425103		
3	.11904828	.24243209	.29931795		
5	.06749101	.11322203	.12746883		
8	.03196243	.03109767	.04316324		
12	.00103969	.00602299	.01854508		
18	.00323517				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
	.00291637		.03785251	.02574465	.05332893
1	.01600970	.01343462	.07379428	.05288294	.08141787
2	.05523271	.01210784	.12413916	.04769606	.08607484
3	.11671363	.02605092	.13252754	.03342659	.05831514
5	.12204654	.01886072	.07169857	.01269986	.02468980
8	.05183187	.00567180	.01721607	.00753359	.01027006
12	.00272776		.00346823		.00201275
18			.00155308		
24					

INCHES	6	7	8	9	10
	.06047736	.09136925	.24056133		
1	.07268547	.11653008	.26087728		
2	.06670155	.13123755	.21024265		
3	.04147633	.08769777	.10626571		
5	.02453276	.01932072	.03067449		
8	.00103969	.00602299	.00227712		
12	.00118521				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	1.58750000	1.00000000	1.95625003
1	.81499999	1.04125041	1.45321052	.52900001	2.24146577
2	.67599999	.96663224	1.20067049	.27900000	2.17857719
3	.57299999	.88043236	.98191913	.14699999	1.88412761
5	.40599999	.64347362	.60155079	.04100000	1.30791648
8	.20399999	.33052346	.26045009	.00599999	.60659908
12	.06700000	.10186319	.07042033		.20997534
18	.00600000	.00939394	.00646840		.02630319
24	.00100000	.00155308	.00093184		.00155308

RUN NUMBER 673	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 15.299509
INC. ENERGY .250000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 1.700000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.078000	.138799	.053070
2				.013000	.016886	.006159
3	.001000	.001598	.000554	.084000	.135745	.047112
4				.037000	.074433	.025833
5				.046000	.087557	.036568
6				.032000	.060640	.032460
7				.058000	.126679	.089421
8				.186000	.362592	.298605
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.051000	.194805	.104725
2				.049000	.187166	.113824
3				.039000	.124141	.078774
4				.030000	.095493	.063887
5				.050000	.159155	.109990
6				.044000	.140056	.103388
7				.035000	.111408	.092303
8	.001000	.001910	.001059	.056000	.106952	.105499
9				.051000	.097403	.095601
10				.047000	.089763	.125367
11				.038000	.072574	.113386
12				.044000	.021008	.076802

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.001000	.000555		.001000	.001598	.000555	.000001

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.534000	1.003333	.589228	.021178	.788199	.001000	.464000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1702.202618	.000291	.009915

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
874	.25000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION.BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.13032153	.03262701	.14312853	.06187551	.11373149
2	.24002267	.05820390	.34193007	.12945716	.19376687
3	.32106175	.05394205	.35405129	.12274740	.19010836
5	.32582292	.06405760	.35935660	.09970178	.16855512
8	.31662295	.07446619	.25384267	.09232996	.14848640
12	.19722958	.02306493	.11543617	.04509311	.02793590
18	.10577238	.00833191	.06618722	.01318939	.01669007
24	.00680051		.01210539		

INCHES	6	7	8	9	10
1	.04313797	.14226953	.40333347		
2	.16673922	.23535428	.55377217		
3	.14373922	.19727840	.39961708		
5	.12597853	.18505425	.34473644		
8	.04516413	.11490383	.13495498		
12	.01860353	.01510013	.01590224		
18	.00315517	.00250415	.00113823		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00868478	.00105124	.03963639	.01356458	.05498664
2	.03651390	.00943281	.07145727	.05146029	.07618405
3	.07801424	.02028608	.11243851	.04237228	.08190154
5	.13199676	.02626317	.12108189	.03063112	.08933650
8	.11059485	.01497710	.06186202	.02687349	.02279408
12	.04897958	.00833191	.02396026	.01318939	.01183920
18	.00531346		.00918947		
24					

INCHES	6	7	8	9	10
1	.05041931	.12018982	.28850094		
2	.05940174	.10609545	.26229068		
3	.06841374	.10829637	.24104991		
5	.03481005	.07465954	.07964438		
8	.01419095	.01389179	.01482439		
12	.00315517	.00250415	.00113823		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	1.83307737	1.15469441	2.20496724
1	.77799999	1.13018232	1.58397135	.55309861	2.47234497
2	.62899999	.93726120	1.16025721	.26442502	2.04697057
3	.54099999	.87863435	.97393835	.12586168	1.79912493
5	.36599999	.61729076	.54510875	.02886737	1.20963847
8	.17800000	.28231806	.20607425	.00230939	.46067499
12	.06800000	.11309788	.07488599		.21696852
18	.00600000	.01450294	.00909760		.01890590
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
674	1000	2E	0φ	17.666258
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.250000	.866030	.000010	1.154694	1.962980

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.077000	.112862	.043153
2				.016000	.028256	.010305
3				.083000	.123954	.043019
4				.030000	.053586	.018598
5				.059000	.098495	.041136
6				.029000	.037359	.019998
7				.061000	.123210	.086972
8				.196000	.349299	.287658
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.086000	.164247	.074152
2				.080000	.152788	.095448
3				.067000	.127960	.076935
4				.077000	.147059	.097357
5				.042000	.080214	.075211
6				.041000	.078304	.084834
7				.043000	.082124	.076337
8				.056000	.106952	.107059
9				.016000	.030558	.105027
10				.011000	.021008	.076195
11				.015000	.028648	.091848
12				.017000	.032468	.091618

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.551000	.927020	.550839	.022207	.777917		.449000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1702.205236		010076

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
875	.25000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.11355551	.02815852	.14185651	.05999147	.12113749
2	.22753894	.07548252	.32128029	.09183941	.18681878
3	.30555817	.09059903	.29370973	.09744903	.16453326
5	.34709470	.08647364	.37050741	.08218732	.20704013
8	.30149509	.06525367	.24387822	.05525299	.09331000
12	.18345259	.02028019	.08941696	.03449074	.04681656
18	.06585897	.00614757	.03988820	.02070270	.00710277
24	.00558423		.01351943		.00818653
INCHES	6	7	8	9	10
1	.06712551	.13711400	.43781698		
2	.15574986	.26075120	.61093125		
3	.13688426	.22218060	.40042212		
5	.09257770	.15804940	.26487064		
8	.05523678	.07402993	.06271227		
12	.00852169	.01315326	.02245580		
18	.00100344		.00202010		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00719539	.00295883	.02415224	.02248578	.06955177
2	.02671822	.02632309	.08382357	.04444845	.07760601
3	.07600255	.03446780	.11380738	.04548992	.09638326
5	.10749108	.03151666	.11688869	.04184251	.05258621
8	.11180278	.00542412	.05893130	.01971061	.03776239
12	.03293849	.00180675	.01688129	.02070270	.00569038
18	.00309421		.00904660		.00201275
24					
INCHES	6	7	8	9	10
1	.07202539	.12061524	.33183373		
2	.05365012	.14769859	.27693632		
3	.05486726	.10198385	.20433208		
5	.04032338	.04854730	.05786290		
8	.00852169	.00673731	.01673038		
12	.00100344		.00202010		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.41420712	2.24505380	1.41420712	2.48815064
2	.72799999	1.22498647	1.71718396	.57416809	2.50456034
3	.57299999	.96913436	1.18330120	.23192996	1.94326618
5	.48399999	.82067176	.86352380	.09333766	1.70213862
8	.31899999	.51261501	.42909599	.01555627	.96672523
12	.15600000	.26562059	.19190845		.41858778
18	.05100000	.08104315	.05217164		.14272375
24	.00500000	.01415356	.00891601		.02729018

RUN NUMBER 675	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 84	SLANT MFP 21.636675
INC. ENERGY .250000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 2.404152

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.071000	.080296	.030702
2				.016000	.019911	.007262
3				.085000	.100308	.034813
4				.037000	.042421	.014722
5				.058000	.085658	.035775
6				.033000	.047465	.025408
7				.056000	.096955	.068439
8				.227000	.309585	.254952
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.094000	.179526	.069795
2				.085000	.162338	.083662
3				.072000	.137510	.070757
4				.093000	.177616	.097823
5				.042000	.080214	.066024
6				.038000	.072574	.062064
7				.046000	.087853	.067146
8				.054000	.103132	.079120
9				.006000	.011459	.038531
10				.016000	.030558	.083076
11				.017000	.032468	.084627
12				.020000	.038197	.098958

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .583000	NO. FLUX REFL. FACT. .782598	DOSE REFL. FACT. .472072	ENERGY REFL. FACT. 024833	ENERGY ABS. FACTOR .751662	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .417000
MEAN ENERGY SCAT.TR.NT.			MEAN ENERGY REFL. NT. Q10649			
1702.205236						

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
676	.25000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.12886903	.01499002	.17407849	.08519351	.16898501
2	.20908653	.03560940	.26788490	.12266065	.23260457
3	.29427047	.05516658	.26884405	.11743263	.18643448
5	.30808189	.06871201	.30508056	.08202146	.13952665
8	.19376086	.04477214	.17100052	.06219331	.07058693
12	.12577566	.02783513	.08946044	.02282282	.03181204
18	.04278967	.01069151	.01482140	.01630765	.00109794
24	.00106590		.00104589		

INCHES	6	7	8	9	10
1	.08250699	.22993650	.60381048		
2	.11022339	.24794435	.65719147		
3	.11354863	.19288721	.34896953		
5	.09312022	.11393756	.16173919		
8	.05372424	.04931402	.03615658		
12	.01446150	.01293231	.00541934		
18	.00901121	.00848073	.00198337		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01150234	.00615573	.05106186	.03205183	.10155902
2	.04603042	.00438023	.10124981	.06190646	.08771064
3	.07101901	.02298427	.12343362	.04031065	.08013434
5	.07235683	.02278085	.09781041	.03375532	.05542134
8	.04695633	.01270010	.04579525	.01501785	.02626229
12	.01676116	.00603609	.00781916	.01320025	.00109794
18	.00106590		.00104589		
24					

INCHES	6	7	8	9	10
1	.04935253	.11708872	.45310425		
2	.06434188	.11025785	.27652042		
3	.06415041	.09247506	.12464870		
5	.03232822	.04054720	.03209923		
8	.01201801	.01026739	.00541934		
12	.00800000	.00237484	.00198337		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	4.64154142	2.92380562	4.34980845
2	.59099999	1.27506616	1.72655847	.45318987	2.33639513
3	.45799999	.82256906	.91507604	.07017134	1.64772491
5	.36499999	.62792749	.58901269	.00877143	1.28099096
8	.23799999	.38709940	.30864040		.68150860
12	.11100000	.17443656	.12428721		.33051925
18	.03300000	.05727281	.04049603		.10518348
24	.00200000	.00211179	.00136234		.00211179

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
676	1000	2E	0φ	44.732791
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.250000	.342020	.000010	2.923806	4.970469

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.064000	.044076	.016853
2				.012000	.005127	.001870
3				.082000	.059538	.020663
4				.049000	.029138	.010112
5				.074000	.057796	.024138
6				.035000	.028219	.015105
7				.083000	.078643	.055513
8				.270000	.206515	.170071
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.089000	.169977	.035156
2				.078000	.148969	.039250
3				.073000	.139419	.034248
4				.090000	.171887	.043063
5				.050000	.095493	.036097
6				.050000	.095493	.040622
7				.049000	.093583	.036806
8				.080000	.152788	.062000
9				.020000	.038197	.052547
10				.024000	.045836	.062751
11				.024000	.045836	.053433
12				.042000	.080214	.104343

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.669000	.509052	.314326	.031083	.689154	.002000	.329000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1702.205236		Q11616

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
677	.50000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.11789940	.01422959	.18114128	.05865049	.08180599
2	.26814588	.05736735	.26367223	.07479854	.16655040
3	.32564999	.05974382	.31155089	.10856963	.15431355
5	.28651831	.05324385	.29271915	.10883906	.17887458
8	.33877340	.04379611	.26290407	.07658861	.10429034
12	.23549004	.03835521	.15792559	.05299167	.07232921
18	.10559148	.00806478	.03185613	.00945722	.00627807
24	.01594224		.01873309	.00118828	.00164051
	.00322690		.00114726		

INCHES	6	7	8	9	10
1	.05829332	.06109509	.06111191	.17335500	.22775561
2	.10223375	.13827141	.09551712	.27049755	.64807180
3	.15010525	.20794923	.13883936	.35810345	.54289470
5	.11898952	.19760259	.17874153	.35112863	.44286920
8	.06788868	.09601692	.09309709	.13606163	.20748460
12	.05712135	.05290292	.04230140	.06518446	.03390090
18	.01129911	.00973883	.00343609	.01067373	.00207406
24	.00128372			.00245542	
	.00128372	.00106011			

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00268067	.00235858	.01593208	.01547832	.04083808
2	.01794901	.00543511	.03420647	.01919611	.04192072
3	.02967148	.01257552	.06965100	.03266787	.05549388
5	.07199941	.01327239	.08288274	.03293976	.05213726
8	.06024013	.01552923	.07513145	.03060083	.04470449
12	.05439301	.00410742	.01781519	.00838376	.00520975
18	.01240759		.00877326	.00118828	.00164051
24	.00322690		.00114726		

INCHES	6	7	8	9	10
1	.01674610	.03419666	.02353151	.05967043	.41596388
2	.02841574	.06384737	.05377341	.13519274	.39370046
3	.04355509	.06867778	.09119652	.14199512	.32348606
5	.03697848	.06800374	.05315830	.07669816	.15974748
8	.03501438	.02893632	.03427151	.04318590	.03110537
12	.01028801	.00871176	.00343609	.00939236	.00207406
18	.00128372			.00245542	
24	.00128372	.00106011			

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	2.40000000	1.00000000	1.98371381
1	.84499999	1.14439631	2.43346714	.51700001	2.60212601
2	.72899999	1.06063716	2.04190730	.26700000	2.62471988
3	.62099999	1.00697031	1.70161064	.13800000	2.34752643
5	.43699999	.68381771	.93967859	.03600000	1.46290145
8	.24999999	.40371962	.42044053	.00500000	.81350276
12	.08500000	.12381142	.10383082		.19846951
18	.01600000	.02774878	.02065171		.04124327
24	.00500000	.00671798	.00513454		.00671798

RUN NUMBER 677	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 15.835284
INC. ENERGY .500000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 2.400000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.003191	.000864	.071000	.117899	.031931
2				.010000	.014230	.003676
3	.001000	.001120	.000275	.086000	.181141	.044530
4				.029000	.058650	.014418
5				.040000	.081806	.024201
6	.001000	.001262	.000479	.032000	.058293	.022103
7	.001000	.001065	.000532	.034000	.061095	.030548
8				.028000	.061112	.035649
9				.085000	.173355	.130016
10				.115000	.227756	.208776

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.046000	.175707	.098628
2	.001000	.003820	.002033	.043000	.164247	.088539
3	.001000	.003183	.000876	.052000	.165521	.091799
4				.045000	.143239	.096898
5	.001000	.003183	.001524	.052000	.165521	.101280
6	.001000	.003183	.001162	.033000	.105042	.072875
7				.036000	.114591	.081803
8				.053000	.101222	.080017
9	.001000	.001910	.000954	.040000	.076394	.076695
10				.036000	.068755	.080998
11				.038000	.072574	.102064
12				.056000	.026738	.085585

(S+U) NO. TRAN.FACT. .005000	(S+U) DOSE TRAN. FACT. .002150	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .005000	SCAT.NO.FLX TRAN. FACT. .006638	SCAT. DOSE TRAN. FACT. .002150	SCAT. EGY. TRAN. FACT. 000041
NUMBER REFL. FACT. .530000	NO. FLUX REFL. FACT. 1.035338	DOSE REFL. FACT. .545848	ENERGY REFL. FACT. 017975	ENERGY ABS. FACTOR .819830	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .465000
2402.202618		MEAN ENERGY SCAT.TR.NT. 004129	MEAN ENERGY REFL. NT. 016958			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
678	.50000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.08892099	.03208354	.13768300	.06936602	.10604997
1	.23518418	.04285679	.23656820	.10053278	.14132367
2	.32060653	.06094180	.26830719	.10355215	.17113472
3	.36628602	.09058744	.34765882	.10541401	.14468802
5	.32632358	.04599107	.31884846	.06108146	.11235708
8	.20930958	.02350212	.15817624	.02354030	.04958997
12	.10345013	.01925816	.05721362	.00642171	.01347084
18	.01815225	.00404590	.01792221	.00361854	.00357403
24		.00209207		.00166644	.00100335

INCHES	6	7	8	9	10
	.05435451	.04296002	.08535302	.15339552	.31280701
1	.10208967	.13317198	.12065530	.33152812	.68491768
2	.10187856	.12192632	.13268337	.31061739	.61577414
3	.06413298	.13370208	.08903030	.32420658	.41976836
5	.08596492	.09149355	.07918920	.17421778	.16051660
8	.04398520	.04360418	.03645121	.05511251	.02767612
12	.00129758	.00547340	.00491929	.00950898	.00950612
18	.00253310	.01395297	.01117202	.00214323	
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00307148	.00800000	.00785374	.01217846	.02218093
2	.03089857	.01363721	.05112264	.02504984	.04770803
3	.05195819	.01746844	.09733210	.04276893	.05979746
5	.09403455	.01303097	.13421104	.01997715	.05501852
8	.08589958	.01314247	.07510331	.01701500	.03150445
12	.03983765	.00922510	.03169154	.00372004	.01347084
18	.01063766	.00404590	.01103134		.00357403
24		.00209207		.00166644	.00100335

INCHES	6	7	8	9	10
1	.00711919	.03169635	.01726743	.11404585	.44015973
2	.03564326	.03780368	.05981747	.12950793	.43063130
3	.02721300	.04771157	.04143190	.17978255	.29944667
5	.04537474	.05212091	.04165140	.10146921	.13212206
8	.02585640	.02720449	.02884537	.03231868	.02204319
12	.00129758	.00547340	.00303225	.00562453	.00503159
18	.00133499	.00491641		.00100694	
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	2.77126658	1.15469441	2.18001514
1	.82399999	1.20281545	2.60706527	.53924230	2.66807066
2	.69299999	1.11354330	2.08512002	.25172339	2.45914557
3	.57999999	.98153494	1.59134776	.11662414	2.20209875
5	.41199999	.71441383	.90293835	.02540328	1.48138700
8	.20999999	.36124232	.35218900	.00230939	.67325683
12	.08500000	.11840452	.09592489		.23051984
18	.02000000	.03654727	.02754899		.07711425
24	.00300000	.00476186	.00295023		.00476186

RUN NUMBER 678	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 84	SLANT MFP 18.284915
INC. ENERGY .500000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 2.771267

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.057000	.077008	.020856
2	.001000	.001700	.000439	.018000	.027785	.007178
3				.075000	.119238	.029313
4	.001000	.001700	.000418	.029000	.060073	.014768
5	.001000	.000885	.000262	.046000	.091842	.027170
6				.031000	.047073	.017848
7				.028000	.037205	.018602
8				.046000	.073918	.043119
9				.079000	.132845	.099634
10				.142000	.270900	.248325

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000500	.083000	.158518	.069610
2				.070000	.133690	.072890
3				.062000	.118411	.066912
4				.084000	.160428	.096039
5				.048000	.091673	.087776
6	.001000	.001910	.000798	.047000	.089763	.081812
7	.001000	.001910	.000838	.045000	.085943	.076415
8				.058000	.110772	.112878
9				.012000	.022918	.068891
10				.011000	.021008	.058659
11				.017000	.032468	.110715
12				.018000	.034377	.103541

(S+U) NO. TRAN.FACT. .003000	(S+U) DOSE TRAN. FACT. .001119	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .003000	SCAT.NO.FLX TRAN. FACT. .004284	SCAT. DOSE TRAN. FACT. .001119	SCAT. EGY. TRAN. FACT. Q00008
NUMBER REFL. FACT. .555000	NO. FLUX REFL. FACT. .937888	DOSE REFL. FACT. .526814	ENERGY REFL. FACT. Q20754	ENERGY ABS. FACTOR .792374	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .441000

2402.205236	MEAN ENERGY SCAT.TR.NT. Q01358	MEAN ENERGY REFL. NT. Q18697
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
679	.50000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.10395399	.23845349	.13504952	.05766802	.08633349
2	.20841155	.05057520	.24832458	.08173441	.18011771
3	.19595029	.05243808	.25980445	.06216167	.15996166
5	.28717177	.05556599	.32631526	.07058663	.08009230
8	.28328813	.05352192	.20856784	.07613648	.06260197
12	.25084751	.02959991	.11943544	.04193847	.03825887
18	.07139821	.02354055	.05516703	.01356948	.00546741
24	.02050349	.00104589	.00467860	.00169571	
INCHES	6	7	8	9	10
1	.09071999	.05331600	.05762100	.20984000	.43057951
2	.11607478	.11805857	.10059379	.35664132	.72207812
3	.11992181	.12512858	.15284296	.30516502	.54146256
5	.13907538	.16105674	.08798638	.24795751	.33969852
8	.06829704	.07931677	.07203565	.17758052	.10470716
12	.02973778	.02519454	.01400373	.04946292	.00977289
18	.00746102	.00207796	.00387191	.00629676	.00217754
24	.00110711	.00251332	.00307607	.00406323	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00148237		.02002744	.00342895	.03056794
2	.01426038	.00573050	.04189130	.01310932	.05669637
3	.03105177	.00632536	.08520311	.02122805	.03747832
5	.08740577	.01550364	.08874207	.02676390	.03675411
8	.09920752	.01160803	.05230263	.02238485	.02062784
12	.04432779	.00349099	.02421149	.00910397	.00133259
18	.01006289	.00104589		.00169571	
24					
INCHES	6	7	8	9	10
1	.04548071	.03713029	.03303164	.08645777	.46872797
2	.04876750	.03660362	.05798480	.12363200	.39865482
3	.08002578	.07201694	.04100666	.12304055	.26517394
5	.04361933	.05057989	.04430243	.10429467	.08315297
8	.02031185	.01880093	.01256958	.03553967	.00977289
12	.00746102	.00207796	.00231079	.00629676	.00217754
18		.00112775		.00406323	
24	.00110711				

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	3.39409710	1.41420712	2.59909307
1	.75099999	1.28211847	2.72490609	.55578339	2.73839343
2	.58199999	1.01511849	1.90886414	.21778791	2.19262497
3	.49299999	.84740291	1.36705294	.08485243	1.88035892
5	.35699999	.59384666	.73008216	.01272786	1.19878134
8	.18700000	.30312579	.27550154		.60825206
12	.06800000	.10279088	.08027244		.19102788
18	.01200000	.01799547	.01642434		.03757631
24	.00100000	.00110711	.00101226		.00110711

RUN NUMBER 679	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0φ	SLANT MFP 22.394372
INC. ENERGY .500000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 3.394097

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.061000	.073507	.019908
2				.013000	.013168	.003402
3				.068000	.095495	.023476
4				.026000	.040778	.010025
5				.048000	.061047	.018060
6	.001000	.000873	.000331	.042000	.064149	.024323
7				.031000	.037700	.018850
8				.035000	.040744	.023767
9				.103000	.148380	.111285
10				.187000	.304467	.279095

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.102000	.194805	.081466
2				.066000	.126050	.059619
3				.086000	.164247	.076415
4	.001000	.001910	.000632	.070000	.133690	.065451
5				.047000	.089763	.077511
6				.052000	.099312	.080779
7				.054000	.103132	.080945
8				.062000	.118411	.101540
9				.015000	.028648	.070228
10				.019000	.036287	.093926
11				.024000	.045836	.135431
12				.017000	.032468	.093094

(S+U) NO. TRAN.FACT. .001000	(S+U) DOSE TRAN. FACT. .000331	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT.NO.FLX TRAN. FACT. .000873	SCAT. DOSE TRAN. FACT. .000331	SCAT. EGY. TRAN. FACT. .000014
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NUMBER REFL. FACT. .614000	NO. FLUX REFL. FACT. .879435	DOSE REFL. FACT. .532191	ENERGY REFL. FACT. 026099	ENERGY ABS. FACTOR .738856	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .384000
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	MEAN ENERGY SCAT.TR.NT. .007221	MEAN ENERGY REFL. NT. Q21253
2402.205236		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
680	.50000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.07076200	.01973302	.09864150	.04596101	.09134854
2	.13257181	.03729401	.15925025	.06101419	.10211482
3	.21886334	.04986392	.22101779	.07976749	.11445353
5	.21666257	.03361693	.20417579	.08865437	.12999696
8	.23797393	.04333126	.13440492	.04019697	.10535394
12	.15395855	.02262813	.09422523	.02034651	.02702669
18	.03434586	.00704057	.02053445	.00611818	.00901172
24	.00145837	.00112146	.00281273		.00100620
	.00108973			.00166644	
INCHES	6	7	8	9	10
1	.06697501	.09525398	.08953899	.27446800	.77705599
2	.11781852	.13504971	.14843011	.35751702	.87921235
3	.10325964	.15468600	.09300672	.21945959	.38267626
5	.06766902	.09955298	.06768229	.15089965	.15943705
8	.05774223	.03892424	.04688365	.06530093	.04911248
12	.02388736	.02265042	.02164224	.01184050	.00129444
18	.00419054	.00757537	.00188704	.00263904	
24				.00119958	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00110724	.00136637	.00868077	.00763801	.01706289
2	.01204813	.00772243	.03687707	.02779347	.04186104
3	.03662192	.01321762	.05236234	.04220044	.06116484
5	.07536507	.01189468	.07796663	.01279953	.04891699
8	.05106255	.01073514	.04357871	.01122359	.01663099
12	.01954978	.00704057	.01487987	.00254848	.00708494
18	.00145837	.00112146	.00281273		.00100620
24	.00108973			.00166644	
INCHES	6	7	8	9	10
1	.03429262	.05191060	.04105583	.12243999	.57746358
2	.06856799	.06067155	.05310059	.14180607	.28229410
3	.05359864	.05989670	.03962934	.10074709	.15145333
5	.03611561	.02645614	.03314779	.03864788	.03906537
8	.00759601	.02098896	.02164224	.00948629	.00129444
12	.00419054	.00577391		.00263904	
18				.00119958	
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	7.01713350	2.92380562	4.49557146
1	.59199999	1.28696972	2.72201992	.42395180	2.55422460
2	.45199999	.79414237	1.33236995	.06139991	1.69845420
3	.35899999	.61966368	.84868086	.00877143	1.22711903
5	.24699999	.40037569	.41419668		.81922456
8	.12100000	.19423893	.16899477		.39950008
12	.04100000	.06370713	.04800897		.09334278
18	.00600000	.00759834	.00602155		.00759834
24	.00200000	.00275617	.00175031		.00275617

RUN NUMBER 680	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 8φ	SLANT MFP 46.299293
INC. ENERGY .500000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 7.017133

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.000349	.000095	.041000	.024202	.006555
2				.009000	.006749	.001743
3				.053000	.033737	.008294
4	.001000	.000671	.000165	.029000	.015720	.003864
5				.048000	.031243	.009243
6				.030000	.022907	.008685
7				.037000	.032579	.016289
8				.044000	.030624	.017864
9				.110000	.093874	.070405
10				.311000	.265769	.243621

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000181	.093000	.177616	.038829
2				.067000	.127960	.029938
3				.082000	.156608	.044048
4				.090000	.171887	.047500
5				.054000	.103132	.043495
6	.001000	.001910	.000315	.047000	.089763	.036935
7				.059000	.112681	.050123
8				.095000	.181436	.085109
9				.015000	.028648	.042340
10				.020000	.038197	.053819
11				.036000	.068755	.091796
12				.054000	.103132	.174351

(S+U) NO. TRAN. FACT. .002000	(S+U) DOSE TRAN. FACT. .000260	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .002000	SCAT.NO.FLX TRAN. FACT. .001021	SCAT. DOSE TRAN. FACT. .000260	SCAT. EGY. TRAN. FACT. 0.00003
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NUMBER REFL. FACT. .712000	NO. FLUX REFL. FACT. .557403	DOSE REFL. FACT. .386564	ENERGY REFL. FACT. Q38186	ENERGY ABS. FACTOR .618100	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR .286000
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2402.205236	MEAN ENERGY SCAT.TR.NT. Q00673	MEAN ENERGY REFL. NT. Q26816
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
681	1.00000000	1.00000000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.10021009	.12712040	.05812459	.03925908	.04563781
2	.19031844	.24730941	.10972965	.06035707	.08214135
3	.22076326	.21489471	.09412558	.07295491	.06554032
5	.26748931	.29780770	.10050106	.08175377	.09119352
8	.21280925	.26987952	.10643545	.07561699	.11006375
12	.21231880	.14109872	.06281042	.02457543	.02470912
18	.09064515	.05665309	.00652517	.00958234	.00858483
24	.01215874	.01188813	.00826023		.00111286
	.00362121	.00118287	.00141331		.00104923
INCHES	6	7	8	9	10
1	.02753059	.07416151	.06054190	.15558629	.60317652
2	.05214995	.10471522	.09124229	.26444469	.72952066
3	.06727905	.12614174	.08645800	.29444993	.58115824
5	.06985336	.11150504	.10801207	.25955495	.43694925
8	.04688897	.07691192	.06850220	.22107400	.20147948
12	.02127035	.04582935	.02290094	.09269814	.04963442
18	.00629655	.01667968	.00753386	.02049159	.00541630
24				.00314881	
				.00125490	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00309961	.01107189	.02215370	.00469758	.02714727
2	.00553072	.03787323	.01332670	.01255248	.03042903
3	.01885104	.04719263	.03761167	.02871103	.03816993
5	.03471219	.08149031	.04274251	.02405212	.04974494
8	.07430060	.06269730	.02848634	.01604205	.01526587
12	.04214029	.03422091	.00652517	.00811846	.00537106
18	.00290512	.00990375	.00826023		.00111286
24	.00362121	.00118287	.00141331		.00104923
INCHES	6	7	8	9	10
1	.00865988	.02329716	.02742383	.06221257	.34222680
2	.03742648	.05217844	.04308208	.12072973	.34615023
3	.02354293	.04255733	.02945069	.12520401	.30365388
5	.01545381	.03140982	.03756213	.11177103	.14000720
8	.01062069	.03008312	.01604289	.06175516	.04314962
12	.00346723	.01298695	.00607925	.01730637	.00541630
18				.00314881	
24				.00125490	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	3.79999999	1.00000000	2.21626598
1	.77899999	1.02599029	3.46480889	.49400000	2.42592874
2	.63899999	.94327914	2.82977497	.24400000	2.06776574
3	.53199999	.81494513	2.20431380	.12000000	1.94462004
5	.36599999	.59794605	1.26004023	.02900000	1.41866154
8	.23099999	.36144366	.57333225	.00300000	.70084569
12	.09300000	.14163199	.17375450		.22840855
18	.01800000	.02533076	.02336058		.03656876
24	.00700000	.01031761	.01118309		.01031761

RUN NUMBER 681	HISTORIES 1000	ENERGY SET 2D	ANGLE SET 2541	SLANT MFP 16.906837
INC. ENERGY 1.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 3.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS.)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.003624	.000610	.063000	.100210	.016877
2	.001000	.001187	.000184	.066000	.127120	.019737
3	.001000	.001445	.000270	.028000	.058125	.010860
4				.020000	.039259	.009401
5	.001000	.001065	.000336	.025000	.045638	.014412
6	.001000	.001843	.000679	.016000	.027531	.010143
7				.044000	.074161	.035129
8				.026000	.060542	.035051
9	.001000	.001262	.000930	.078000	.155586	.114642
10				.281000	.603176	.539684

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.065000	.248281	.133014
2	.001000	.003820	.001284	.046000	.175707	.107611
3				.061000	.194169	.127391
4	.001000	.003183	.000586	.068000	.216450	.156645
5	.001000	.003183	.002960	.046000	.146422	.100305
6				.039000	.124141	.094920
7	.002000	.006366	.001634	.034000	.108225	.089970
8				.065000	.124141	.123693
9	.001000	.001910	.001297	.056000	.106952	.120245
10	.001000	.001910	.000701	.044000	.084034	.118128
11				.050000	.095493	.169165
12				.073000	.034855	.136535

(S+U) NO. TRAN.FACT. .007000	(S+U) DOSE TRAN. FACT. .003010	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .007000	SCAT.NO.FLX TRAN. FACT. .010426	SCAT. DOSE TRAN. FACT. .003010	SCAT. EGY. TRAN. FACT. .000095
NUMBER REFL. FACT. .647000	NO. FLUX REFL. FACT. 1.291349	DOSE REFL. FACT. .805938	ENERGY REFL. FACT. .031697	ENERGY ABS. FACTOR .682069	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .345000
3803.402618		MEAN ENERGY SCAT.TR.NT. 013624		MEAN ENERGY REFL. NT. 048990		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
682	1.00000000	.86603000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.09434747	.10214604	.06363603	.03154000	.03155052
2	.16974028	.16813628	.11123962	.06102803	.08911536
3	.21012377	.20463109	.09658221	.03633142	.06859564
5	.28098406	.24340075	.09209599	.06945977	.05581620
8	.21574330	.22357391	.08556987	.05768183	.07866920
12	.23526117	.12990555	.03816765	.03546269	.03583653
18	.09715926	.04946573	.00559020	.00735623	.00708038
24	.01697377	.02190637		.01217292	.00940378
	.00341291	.00105689			
INCHES	6	7	8	9	10
1	.03185001	.07835000	.03973802	.16046904	.60801700
2	.06266079	.08367277	.07312476	.29239930	.84983414
3	.06370802	.09656930	.07556602	.29478366	.62667202
5	.06747376	.09407349	.10187767	.26412073	.35755730
8	.04524454	.08202947	.06043511	.15233415	.19622288
12	.01245572	.02953138	.02582441	.05818164	.03318789
18	.00451302	.01767958	.00833585	.01847259	.00645427
24	.00737360	.00102192			

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00692873	.00865609	.00629445	.00781499	.02789400
2	.00919805	.01666261	.02118988	.01106758	.02355630
3	.01994863	.03880469	.03091807	.01288980	.02669233
5	.04070004	.06618603	.03355584	.01482561	.04123715
8	.07794681	.06615348	.02463970	.01879371	.02033584
12	.04226470	.02527390	.00559020	.00186784	.00461504
18	.01319889	.01113676		.00523563	
24	.00341291	.00105689			
INCHES	6	7	8	9	10
1	.01966617	.01414844	.01559512	.07719754	.43985394
2	.02555404	.03901378	.01613240	.13213030	.37620509
3	.02655635	.03347649	.04410604	.14054706	.26073691
5	.02349693	.03081609	.02564282	.08494527	.14366023
8	.00666537	.02148727	.01021750	.04684205	.02858977
12	.00294425	.01441081	.00445140	.01150023	.00645427
18	.00234967	.00102192			
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	4.38783875	1.15469441	2.36899308
1	.72999999	1.13557909	3.87207911	.51152963	2.47248096
2	.56999999	.89703015	2.77958528	.22632011	1.99988326
3	.46699999	.73513478	1.99013334	.10045842	1.72731814
5	.32699999	.52469581	1.11633478	.01962981	1.21713406
8	.19200000	.32282619	.44975977	.00115470	.63496932
12	.07300000	.11937265	.14642561		.22210712
18	.01900000	.03294286	.02542885		.06885235
24	.00300000	.00446980	.00270686		.00446980

RUN NUMBER 682	HISTORIES 1000	ENERGY SET 20	ANGLE SET 04	SLANT MFP 19.522230
INC. ENERGY 1.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 4.387839

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.002768	.000466	.056000	.081708	.013761
2	.001000	.000885	.000137	.062000	.088461	.013735
3				.030000	.055111	.010297
4				.020000	.027315	.006541
5				.019000	.027324	.008628
6				.020000	.027583	.010162
7				.040000	.067853	.032141
8				.021000	.034414	.019924
9				.088000	.138971	.102400
10				.310000	.526561	.471133

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000262	.096000	.183346	.094917
2				.102000	.194805	.123251
3	.001000	.001910	.000344	.089000	.169977	.113760
4				.084000	.160428	.114673
5				.059000	.112681	.118221
6				.080000	.152788	.165048
7	.001000	.001910	.000547	.062000	.118411	.117478
8				.037000	.070665	.079432
9				.020000	.038197	.148166
10				.015000	.028648	.094693
11				.011000	.021008	.064390
12				.011000	.021008	.081331

(S+U) NO. TRAN.FACT. .003000	(S+U) DOSE TRAN. FACT. .000604	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .003000	SCAT.NO.FLX TRAN. FACT. .003653	SCAT. DOSE TRAN. FACT. .000604	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .666000	NO. FLUX REFL. FACT. 1.075301	DOSE REFL. FACT. .688723	ENERGY REFL. FACT. 034448	ENERGY ABS. FACTOR .655504	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .330000
3803.405236		MEAN ENERGY SCAT.TR.NT. 000103	MEAN ENERGY REFL. NT. 051724			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
683	1.00000000	.70711000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.09685351	.12193601	.05288253	.04399400	.05481752
2	.17023582	.18533145	.07459218	.06692585	.07733171
3	.25084495	.30327621	.13230350	.05471674	.10305263
5	.19629786	.26786304	.12966062	.06305591	.08686824
8	.28240301	.20042688	.07906393	.04387064	.04735881
12	.24089401	.19049177	.04299776	.00909001	.02717238
18	.07610534	.05101284	.00954391	.00245690	.00740352
24	.02778359	.01232075	.00213151		.00118582
		.00173105			
INCHES	6	7	8	9	10
1	.02801602	.10240748	.03892901	.21754602	.62415853
2	.06662575	.09329133	.07861681	.33272550	.87612775
3	.06744342	.08791841	.10114670	.32102993	.63237536
5	.04607584	.08530429	.06273461	.28056020	.40500931
8	.04868778	.06756689	.03334242	.18057546	.13600650
12	.03430155	.04681290	.02201189	.05140861	.03874792
18	.01732765	.01789531	.00422763	.01464655	.00103951
24	.00337548	.00384810			

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.00238890	.01385736	.01033498	.00834745	.01943827
2	.01313745	.03798582	.02864193	.01838167	.02977789
3	.03273002	.05273674	.05687904	.01658465	.04312173
5	.06776362	.07483023	.03858854	.01272269	.02675867
8	.07207434	.07238965	.02260562	.00780750	.01909286
12	.03995100	.03287511	.00550366	.00245690	.00597301
18	.01442155	.00623148			.00118582
24		.00173105			
INCHES	6	7	8	9	10
1	.01669755	.02138467	.02655598	.10292724	.47612315
2	.02529076	.03272623	.03613628	.13815804	.40281245
3	.01604992	.03792195	.03106368	.13337433	.29444103
5	.01964636	.03742940	.01668848	.10928695	.10833875
8	.01296802	.03061075	.01313005	.03450444	.02344348
12		.00788744	.00315685	.01464655	.00103951
18		.00384810			
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	5.37398707	1.41420712	2.72700189
1	.70099999	1.21989798	4.14682377	.52184244	2.54364658
2	.54899999	.95538071	2.81048582	.19233217	2.24644001
3	.45099999	.78561345	1.98495630	.07071035	1.69414028
5	.31499999	.52053893	1.00567655	.00848523	1.12778757
8	.19000000	.30862671	.41612121		.70392881
12	.07000000	.11349005	.12177048		.20165916
18	.01500000	.02568695	.02054314		.05064525
24	.00100000	.00173105	.00103863		.00173105

RUN NUMBER 683	HISTORIES 1000	ENERGY SET 20	ANGLE SET 0°	SLANT MFP 23.909770
INC. ENERGY 1.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 5.373987

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50 % SATURATED)

REGION THICKNESSES (CENTIMETERS.)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.055000	.068486	.011534
2	.001000	.001388	.000215	.060000	.086222	.013387
3				.025000	.037394	.006987
4				.021000	.031109	.007450
5				.028000	.038762	.012241
6				.018000	.019810	.007299
7				.046000	.072413	.034301
8				.020000	.027527	.015937
9				.104000	.153829	.113348
10				.309000	.441349	.394891

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.104000	.198625	.080505
2				.095000	.181436	.095240
3				.100000	.190985	.108247
4				.078000	.148969	.078180
5				.063000	.120321	.116112
6	.001000	.001910	.000411	.079000	.150879	.145788
7				.047000	.089763	.082446
8				.036000	.068755	.054589
9				.028000	.053476	.159257
10				.021000	.040107	.086481
11				.016000	.030558	.084358
12				.019000	.036287	.087890

(S+U) NO. TRAN.FACT. .001000	(S+U) DOSE TRAN. FACT. .000216	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .001000	SCAT.NO.FLX TRAN. FACT. .001388	SCAT. DOSE TRAN. FACT. .000216	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT. .686000	NO. FLUX REFL. FACT. .976901	DOSE REFL. FACT. .617374	ENERGY REFL. FACT. Q35900	ENERGY ABS. FACTOR .640988	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .312000
3803.405236		MEAN ENERGY SCAT.TR.NT. Q00127	MEAN ENERGY REFL. NT. Q52332			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
684	1.00000000	.34202000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06589602	.08720901	.08192901	.04758802	.06200902
2	.11122239	.17601361	.09274122	.05972721	.11609938
3	.16210129	.18107924	.08057103	.06587057	.09129183
5	.16603968	.24757703	.08521465	.04783217	.09275423
8	.19293012	.20469893	.06335853	.03458252	.04565068
12	.13181562	.11770709	.03208404	.00861785	.02542091
18	.03971496	.02317780	.00656861	.00312010	.00449661
24	.02827995	.01235511		.00608098	.00177966
	.00280875				
INCHES	6	7	8	9	10
1	.05100750	.07749852	.07056200	.30913450	.85988249
2	.06852294	.11854019	.06363821	.36813992	.81737667
3	.05583983	.11505653	.08856257	.33400477	.41857605
5	.09045345	.09392861	.09663916	.24389420	.21309103
8	.03374001	.04476405	.03992884	.09629357	.06844337
12	.02022397	.03070491	.01276425	.03984735	.01476464
18	.00463300	.00621673	.01003374	.00491388	.00521231
24	.00148777	.00123803		.00133343	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00427402	.01402151	.00679982	.00751730	.02988296
2	.01845138	.04380496	.01105143	.01661749	.03202235
3	.02366055	.05590339	.02237128	.01868737	.02782991
5	.05754640	.08366470	.02970889	.01660792	.02026654
8	.06857855	.06021539	.01687606	.00317258	.00829998
12	.02662719	.01967234	.00486397	.00200186	
18	.00896558	.01021587		.00474133	.00177966
24	.00280875				
INCHES	6	7	8	9	10
1	.02346010	.02932799	.03256265	.17858965	.59285439
2	.01539238	.04612897	.02879278	.21517013	.33218924
3	.03795357	.02970172	.03547600	.16594450	.17242622
5	.01061075	.02474525	.01746824	.07051401	.05989392
8	.00812508	.01495826	.00569317	.03686210	.01476464
12	.00463300	.00279651	.00694557	.00491388	.00360516
18		.00123803		.00133343	
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	11.11046136	2.92380562	4.56098888
1	.54399999	1.29061370	4.20523774	.37132332	2.36334506
2	.41799999	.80640201	2.21409197	.04678087	1.63973461
3	.33399999	.59580212	1.38562257	.00584760	1.38327182
5	.23399999	.39102663	.64677953		.82439063
8	.13100000	.23754580	.31012459		.43395063
12	.05100000	.07605948	.08661972		.10808775
18	.01700000	.02827390	.02489011		.05255494
24	.00200000	.00280875	.00173269		.00280875

RUN NUMBER 684	HISTORIES 1000	ENERGY SET 20	ANGLE SET 84	SLANT MFP 49.432305
INC. ENERGY 1.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 11.110461

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.001093	.000184	.039000	.022538	.003796
2				.053000	.029827	.004631
3				.038000	.028021	.005236
4				.025000	.016276	.003898
5				.034000	.021208	.006697
6				.026000	.017446	.006427
7				.035000	.026506	.012555
8				.033000	.024134	.013972
9				.130000	.105730	.077906
10				.341000	.294097	.263139

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. ACT/STER
1				.085000	.162338	.032832
2				.087000	.166157	.043457
3	.001000	.001910	.000136	.086000	.164247	.042006
4				.081000	.154698	.036061
5				.068000	.129870	.058162
6	.001000	.001910	.000216	.079000	.150879	.074955
7				.054000	.103132	.036700
8				.088000	.168067	.075549
9				.036000	.068755	.111052
10				.025000	.047746	.078332
11				.027000	.051566	.068337
12				.038000	.072574	.103172

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.002000	.000184		.002000	.001093	.000184	

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.754000	.585783	.398258	.041785	.582140		.244000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.000027	.055417

3803.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
685	2.00000000	1.00000000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08352999	.07861232	.05256472	.04302106	.04620468
2	.13629841	.18375568	.12863650	.08187340	.08332813
3	.20496044	.18541661	.17189884	.10273826	.09321651
5	.18680469	.25568251	.17072997	.15399447	.08470350
8	.23556794	.25323423	.17779858	.14434764	.07506099
12	.29335271	.19610928	.13713065	.09588564	.10436602
18	.21192923	.18244731	.06386803	.04541410	.06349266
24	.07143303	.05692746	.03573848	.01182194	.01461968
	.00348278	.00267483	.00407114	.00133930	
INCHES	6	7	8	9	10
1	.01968338	.05714151	.05027880	.10522810	.37420888
2	.04454782	.10132494	.10664539	.19183765	.53831740
3	.04041744	.12228197	.09888246	.29210084	.49081792
5	.06846720	.11056903	.13913867	.29297736	.44716430
8	.06439785	.13749354	.10764827	.24694851	.39291989
12	.05788836	.12815519	.08672227	.18621914	.21755933
18	.01745018	.06874207	.03924311	.09865091	.09492768
24	.00133058	.01394706	.00880364	.02880264	.01354865
		.00807144	.00177930	.00487901	.00235582

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00416890	.02309302	.00952191	.01549380
2	.00431168	.03034716	.02170364	.02091258	.01569087
3	.00799495	.02737596	.03583677	.03324059	.01270626
5	.03016728	.05669568	.03030358	.02874532	.01217560
8	.05521480	.05240946	.05407141	.02753674	.02961404
12	.07360288	.05370382	.03311220	.01879609	.02554019
18	.03170108	.02162212	.01667685	.00941075	.00578680
24	.00348278	.00267483	.00407114	.00133930	
INCHES	6	7	8	9	10
1	.00163535	.01867381	.00936615	.03860160	.17566477
2	.00704524	.02600599	.01717920	.09286477	.23443148
3	.02469053	.02459859	.03850007	.10430031	.22317444
5	.01698830	.03771330	.03458416	.08872894	.23213225
8	.01660295	.03483607	.02455957	.09313262	.15648596
12	.00649948	.03535285	.01362947	.04893735	.06926060
18	.00133058	.01193384	.00644699	.01728908	.00982502
24		.00807144	.00177930	.00487901	.00235582

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.29230769	1.00000000	1.84893021
1	.90000000	1.05021930	4.27275720	.75399999	2.35056532
2	.80799999	1.03849261	4.02579201	.56800000	2.37073128
3	.73199999	.96041847	3.56146326	.42800000	2.33823171
5	.60399999	.81123442	2.76807243	.24299999	2.07841744
8	.43699999	.64846363	1.88514593	.10399999	1.60738859
12	.24999999	.41143495	.95799325	.03300000	.91916528
18	.08800000	.13802312	.26452538	.00599999	.26297317
24	.02200000	.02965362	.07205725	.00100001	.02965362

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
685	1000	2C	2541	6.791567
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
2.000000	1.000000	.000010	1.000000	4.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.003000	.003426	.000535	.052000	.083530	.013039
2	.002000	.002784	.000401	.050000	.078612	.011313
3	.002000	.004108	.000812	.032000	.052565	.010385
4	.001000	.001347	.000427	.025000	.043021	.013641
5				.024000	.046205	.020285
6				.011000	.019683	.010562
7	.006000	.008181	.005587	.028000	.057141	.039023
8	.001000	.001843	.001529	.029000	.050279	.041695
9	.004000	.004882	.004644	.054000	.105228	.100095
10	.002000	.002358	.002358	.185000	.374209	.374209

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.003000	.011459	.010168	.047000	.179526	.107455
2				.033000	.126050	.088925
3	.003000	.009549	.003547	.047000	.149605	.100752
4	.002000	.006366	.001133	.043000	.136873	.100551
5	.003000	.009549	.010387	.048000	.152788	.125097
6	.004000	.012732	.012657	.033000	.105042	.092337
7	.001000	.003183	.000909	.038000	.120957	.118170
8	.002000	.003820	.002523	.055000	.105042	.111413
9	.002000	.003820	.005324	.038000	.072574	.087093
10				.037000	.070665	.107465
11	.001000	.001910	.001005	.029000	.055386	.116461
12				.042000	.020053	.092138

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.022000	.017292	.001000	.021000	.028932	.016292	.000696

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.490000	.910473	.634246	.022003	.772001	.001000	.487000

4104.102618	MEAN ENERGY SCAT. TR. NT. 066265	MEAN ENERGY REFL. NT. 089810
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
686	2.00000000	.86603000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05954549	.11489152	.04634501	.05260454	.05207350
2	.14420648	.17931654	.10231450	.06975753	.09553972
3	.22886317	.29264267	.17414525	.10449850	.08600436
5	.22420658	.21575446	.13884141	.15723442	.08743120
8	.31444800	.24093109	.16481426	.14623570	.08743556
12	.23157477	.19534461	.09270359	.08640396	.08193159
18	.22555152	.14867019	.09267063	.07252020	.02410340
24	.07120233	.04049482	.02487281	.03147564	.01751076
	.00689271	.01183114	.00103437	.00420332	.00108228
INCHES	6	7	8	9	10
1	.02197803	.04682151	.05513803	.12944251	.37977350
2	.04893824	.07418692	.11299123	.25024437	.53850223
3	.05478134	.10323348	.14857410	.25170083	.58562961
5	.04434684	.11294271	.10336950	.28832897	.50048192
8	.03051272	.10566089	.08889753	.26236190	.38912151
12	.04673478	.10349058	.04320047	.14681882	.20774681
18	.01896497	.06043727	.03697643	.07556671	.08798143
24	.00963105	.00895312	.02115303	.02047564	.03179557
	.00120499	.00104167	.00166327	.00433712	.00862837

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00134161	.00396146	.00174587	.01013810	.00834216
2	.00337699	.02011537	.04054578	.01638018	.02972398
3	.01390965	.02369073	.02726209	.03293052	.03548949
5	.01833713	.04332646	.02729958	.04506600	.03392374
8	.05358184	.04126660	.03451358	.02877771	.03792518
12	.04775285	.05051318	.02497769	.03121919	.00835845
18	.02551284	.01291096	.00727167	.01832598	.00789013
24	.00689271	.01183114	.00103437	.00420332	.00108228
INCHES	6	7	8	9	10
1	.01304388	.01112949	.02844577	.05379837	.22765200
2	.01183005	.03013895	.03196417	.07405651	.29322996
3	.01064611	.04440467	.03100115	.10084489	.32110461
5	.01317244	.05928090	.03027021	.10304784	.26547380
8	.01240036	.05365094	.02276814	.08349263	.15261931
12	.00849218	.04373556	.02220205	.04734811	.07165483
18	.00505957	.00537264	.00806083	.01149956	.02953704
24	.00120499	.00104167	.00166327	.00433712	.00862837

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	4.95630370	1.15469441	2.07349276
1	.89300000	1.19213337	4.93510157	.83253467	2.44853246
2	.80199999	1.15180304	4.44665871	.60044109	2.63051442
3	.70999999	1.07429433	4.00533531	.43301040	2.30594843
5	.56699999	.86436353	2.96102738	.22516540	2.05558457
8	.40699999	.60528897	1.77096161	.08429268	1.30024268
12	.22999999	.37819329	.93210171	.02193919	.86538194
18	.08500000	.13375061	.30244299	.00230939	.27987416
24	.02400000	.04191924	.08292809		.04191924

RUN NUMBER 686	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 8φ	SLANT MFP 7.842184
INC. ENERGY 2.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 4.734247

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.005000	.005790	.000904	.039000	.051568	.008050
2	.003000	.007891	.001135	.059000	.099499	.014318
3	.001000	.000885	.000175	.030000	.040136	.007929
4	.002000	.006191	.001963	.030000	.045557	.014445
5	.001000	.000885	.000388	.024000	.045097	.019799
6	.001000	.001069	.000573	.012000	.019034	.010213
7	.001000	.000885	.000604	.028000	.040549	.027692
8	.001000	.001700	.001409	.027000	.047751	.039599
9	.003000	.003837	.003650	.074000	.112101	.106633
10	.006000	.007306	.007306	.186000	.328895	.328895

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.006000	.011459	.005872	.076000	.145149	.077686
2				.077000	.147059	.100802
3	.006000	.011459	.007756	.069000	.131780	.099936
4	.004000	.007639	.003201	.077000	.147059	.105018
5	.003000	.005730	.006405	.031000	.059205	.073169
6				.053000	.101222	.113229
7				.040000	.076394	.095225
8	.003000	.005730	.006840	.037000	.070665	.085384
9	.001000	.001910	.003102	.010000	.019099	.072850
10				.016000	.030558	.115921
11	.001000	.001910	.001408	.011000	.021008	.086093
12				.012000	.022918	.077766

(S+U) NO. TRAN.FACT. .024000	(S+U) DOSE TRAN. FACT. .018108	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .024000	SCAT.NO.FLX TRAN. FACT. .036437	SCAT. DOSE TRAN. FACT. .018108	SCAT. EGY. TRAN. FACT. Q00858
NUMBER REFL. FACT. .509000	NO. FLUX REFL. FACT. .830188	DOSE REFL. FACT. .577572	ENERGY REFL. FACT. Q23541	ENERGY ABS. FACTOR .755995	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .466000
4104.105236		MEAN ENERGY SCAT.TR.NT. Q71535	MEAN ENERGY REFL. NT. Q92500			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
687	2.00000000	.70711000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06024849	.11052451	.05133250	.06102551	.04884951
2	.09630788	.14844186	.11579596	.11904555	.06688772
3	.21060395	.14767229	.11976620	.12002776	.07108812
5	.22498153	.22288532	.15395379	.11963448	.12363905
8	.19922952	.18159919	.14739058	.10012922	.11659329
12	.27960517	.20206059	.12207891	.07197839	.06742808
18	.16297367	.11928424	.08615070	.04067293	.03701602
24	.06706954	.04649051	.02125849	.03140821	.01822262
	.02012676	.00336509	.00267190	.00440830	.00309575
INCHES	6	7	8	9	10
1	.02130253	.05132799	.07057251	.11600352	.46050602
2	.06813762	.12972996	.11697381	.27780294	.64649584
3	.07949137	.16660661	.13347110	.35398133	.59059214
5	.07700470	.11681213	.10497520	.33086806	.44662753
8	.07812398	.14197013	.11250243	.24021025	.33747363
12	.02217499	.11365765	.09547780	.15718078	.20300565
18	.00761739	.07347409	.03992675	.05950365	.04930211
24	.00686711	.02602005	.01014353	.01882817	.00539716
			.00102303	.00251305	.00132522

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00384918	.01062976	.01537652	.00466699
2	.00213109	.01151769	.01370159	.01465986	.01647522
3	.02081903	.01434443	.03461948	.02728976	.02496827
5	.03751116	.04155269	.04494233	.02500140	.04414163
8	.07202597	.07593411	.06173540	.02500227	.03952507
12	.04113057	.05397895	.03699032	.01334064	.01987855
18	.02953139	.02669896	.01038855	.01098249	.01461087
24	.02012676	.00336509	.00267190	.00440830	.00309575
INCHES	6	7	8	9	10
1	.00583827	.02097185	.02601761	.06658054	.25773862
2	.01393942	.04324197	.02469585	.14683196	.31979039
3	.01936121	.04304297	.03092107	.13900296	.29675945
5	.01933625	.05510447	.04603801	.09622334	.24382484
8	.01429236	.05352132	.03594714	.09150414	.14479056
12	.00639264	.04380400	.03110506	.03590115	.04063237
18	.00583657	.01584248	.00537654	.01136415	.00539716
24			.00102303	.00251305	.00132522

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.07021212	1.41420712	2.41979730
1	.85699999	1.35918813	5.61201580	.94751879	2.73313791
2	.73699999	1.24196405	4.95936388	.63497900	2.62827986
3	.64199999	1.07680498	4.02190978	.42567634	2.34705815
5	.52699999	.84459409	2.77110497	.19091795	1.84614018
8	.39199999	.67084663	1.75488602	.05656828	1.39121629
12	.21199999	.33446792	.73626883	.01131367	.68723522
18	.07800000	.13602915	.22747217		.25170539
24	.02700000	.03852910	.04755774		.03852910

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
687	1000	2C	0φ	9.604682
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
2.000000	.707110	.000010	1.414207	5.798249

SLAB CONFIGURATION NEVEDA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.012000	.014875	.002322	.034000	.042602	.006650
2	.003000	.002467	.000355	.058000	.078153	.011246
3	.002000	.001745	.000345	.032000	.036298	.007171
4	.004000	.003039	.000964	.030000	.043152	.013682
5	.002000	.002775	.001218	.024000	.034542	.015165
6				.015000	.015063	.008083
7				.025000	.036295	.024787
8	.001000	.000722	.000599	.032000	.049903	.041383
9	.002000	.001745	.001660	.064000	.082027	.078026
10	.001000	.000873	.000873	.232000	.325628	.325628

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.008000	.015279	.003301	.081000	.154698	.072461
2	.006000	.011459	.003215	.064000	.122231	.075467
3	.001000	.001910	.000260	.076000	.145149	.081935
4	.006000	.011459	.004329	.081000	.154698	.098209
5				.053000	.101222	.079341
6	.001000	.001910	.000414	.044000	.084034	.083802
7	.002000	.003820	.001577	.038000	.072574	.078074
8	.002000	.003820	.001577	.054000	.103132	.105405
9				.015000	.028648	.115340
10				.018000	.034377	.088940
11				.007000	.013369	.029946
12	.001000	.001910	.001247	.015000	.028648	.086213

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.027000	.008336		.027000	.028243	.008336	.000340

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.546000	.743663	.531821	.027208	.724507	.002000	.425000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
4104.105236	Q99664

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
688	2.00000000	.34202000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.04928950	.09645602	.06197104	.07317853	.06333250
2	.10337605	.12581780	.07105604	.11867565	.08979481
3	.16372198	.18445930	.09103250	.19012614	.11707690
5	.23137888	.18363607	.12490189	.16029944	.09344353
8	.17638059	.20882349	.09174224	.11061407	.07564447
12	.19081341	.14678214	.10787908	.03761674	.06499062
18	.12662754	.06655428	.02923577	.01683741	.01040412
24	.02696772	.02547610	.00517994	.00595870	.00486459
	.00330317	.00491601	.00151273		.00133967
INCHES	6	7	8	9	10
1	.03323701	.07876850	.06522503	.16333750	.75942900
2	.05699032	.15672008	.13353389	.29839086	.87817813
3	.06185752	.17366034	.12217779	.31517144	.66123667
5	.05909602	.15618695	.09734761	.20821401	.54963032
8	.04153982	.12736114	.06811185	.17403618	.23811431
12	.02391604	.12915703	.05251355	.11502174	.09305402
18	.00310613	.02442822	.01280708	.05126565	.02660917
24		.00575874	.00224757	.00757081	.00343591
		.00323886		.00118331	.00225335

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00107665	.00204463	.00913776	.02077847
2	.00564618	.01717268	.02128927	.03405678	.03274656
3	.02051703	.03178355	.03091331	.03512547	.03773649
5	.03894927	.05399290	.03896385	.04961471	.03090213
8	.05348041	.05816825	.04501554	.01652036	.03205717
12	.05467312	.03440561	.01608368	.01144756	.00540293
18	.01129188	.01882182	.00217714	.00413630	.00210457
24	.00330317	.00491601	.00151273		.00133967
INCHES	6	7	8	9	10
1	.02779310	.04470796	.03861380	.09208598	.50417325
2	.01503923	.05562557	.05599853	.12151921	.42898113
3	.01207602	.06791349	.04448404	.10318636	.41157698
5	.02525397	.04951784	.03224461	.10612979	.18109278
8	.00804371	.05834916	.03427688	.05558491	.07761327
12	.00310613	.01472911	.00607093	.02020770	.02348196
18		.00575874	.00101771	.00598021	.00343591
24		.00323886		.00118331	.00225335

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	12.54987337	2.92380562	4.26837665
1	.74299999	2.01811466	8.33773769	1.27770306	3.31023668
2	.58599999	1.34652203	5.20022340	.55844687	2.63896746
3	.49799999	1.03798859	3.70800302	.24267585	2.10681058
5	.37899999	.65051894	1.88109668	.04385710	1.35622525
8	.25999999	.44203348	1.03367509	.00292383	.96466816
12	.13000000	.18960874	.33781395		.36787537
18	.03600000	.05472428	.08595490		.08746008
24	.01200000	.01774711	.03128030		.01774711

RUN NUMBER 688	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 0φ	SLANT MFP 19.857222
INC. ENERGY 2.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 11.987603

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.3400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.003000	.001121	.000175	.030000	.016858	.002632
2	.002000	.001342	.000193	.053000	.032990	.004747
3	.001000	.000671	.000133	.037000	.021195	.004187
4				.045000	.025029	.007936
5	.001000	.000422	.000185	.030000	.021661	.009510
6				.018000	.011368	.006100
7	.002000	.001342	.000917	.040000	.026940	.018398
8				.029000	.022308	.018499
9	.001000	.000422	.000401	.069000	.055865	.053140
10	.002000	.000844	.000844	.305000	.259740	.259740

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.000208	.092000	.175707	.043471
2	.003000	.005730	.001927	.070000	.133690	.037942
3	.002000	.003820	.000932	.095000	.181436	.053316
4				.076000	.145149	.040073
5	.001000	.001910	.000184	.054000	.103132	.030683
6	.002000	.003820	.000438	.052000	.099312	.048366
7				.053000	.101222	.051246
8	.002000	.003820	.001751	.058000	.110772	.052346
9				.015000	.028648	.053282
10				.027000	.051566	.095359
11				.023000	.043927	.075201
12				.041000	.078304	.133798

(S+U) NO. TRAN. FACT. .012000	(S+U) DOSE TRAN. FACT. .002848	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .012000	SCAT. NO. FLX TRAN. FACT. .006165	SCAT. DOSE TRAN. FACT. .002848	SCAT. EGY. TRAN. FACT. .000312
NUMBER REFL. FACT. .656000	NO. FLUX REFL. FACT. .493954	DOSE REFL. FACT. .384889	ENERGY REFL. FACT. .035032	ENERGY ABS. FACTOR .646552	NUMBER ABS. FACTOR .002000	NO. CUTOFF FACTOR .330000
MEAN ENERGY SCAT. TR. NT. 051947			MEAN ENERGY REFL. NT. 106805			

4104.105236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
689	3.00000000	1.00000000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.09140289	.04895661	.03880241	.04560359	.04511770
1	.15857679	.11403971	.09740824	.07607150	.07472451
2	.18108101	.15372551	.10808213	.08968230	.14954682
3	.19186682	.21042159	.10163051	.10217700	.10448202
5	.26171158	.21162213	.12015149	.08975955	.09838413
8	.28029068	.17146360	.11026556	.10426248	.11053839
12	.18219951	.18322754	.12496388	.08029161	.09446850
18	.10754302	.08648552	.04652393	.01616206	.05581472
24	.02452247	.00818910	.00469634	.00759154	.00713869
INCHES	6	7	8	9	10
	.08031328	.07662018	.04692480	.18660199	.19036430
1	.14105349	.10515721	.09461992	.21123588	.25054205
2	.14965205	.13816550	.11840027	.18131948	.33994362
3	.17896441	.14401503	.14149462	.23459531	.30021883
5	.21290389	.15457457	.16368633	.20591439	.33286555
8	.21714661	.13479276	.12008780	.16312733	.23452360
12	.12080067	.06446295	.07180836	.09551276	.14051278
18	.06796216	.03835132	.02404628	.04698658	.04804352
24	.01681560	.00842318	.00561611	.01092644	.01788097

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
		.00586104		.00967578	.00510857
1		.01836303	.01361848	.00758361	.01961066
2	.00397766	.02494626	.00696452	.03006943	.00873314
3	.02499725	.03549533	.02537170	.02219258	.02182828
5	.04172235	.03343703	.02194137	.01922015	.04319604
8	.03555004	.04769577	.02366823	.02592632	.04336631
12	.04132546	.02843461	.02614971	.00382448	.01893668
18	.02452247	.00818910	.00469634	.00759154	.00713869
24					
INCHES	6	7	8	9	10
	.02611001	.01968609	.01505188	.02782222	.11884243
1	.02894262	.05726170	.02027312	.02898672	.19477398
2	.04072040	.05179553	.04113011	.05353485	.21390760
3	.06895674	.05467538	.05727199	.06349882	.25153516
5	.07001565	.05620892	.05308071	.06772525	.19630905
8	.06443162	.03618398	.03846054	.04500459	.10709246
12	.03392671	.02260631	.02109902	.03174504	.03339549
18	.01681560	.00842318	.00561611	.01092644	.01788097
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.78461538	1.00000000	1.81577098
1	.93900000	1.04515801	4.83873800	.81700000	2.14042928
2	.87499999	1.05541392	4.70278442	.66600000	2.27559868
3	.82199999	1.01977949	4.42877160	.54399999	2.25386612
5	.71899999	.98782323	3.99077243	.36199999	2.21357361
8	.57499999	.79985653	2.98817911	.19700001	1.84349883
12	.38499999	.55437986	1.78991880	.08700001	1.24524855
18	.18800000	.28644351	.79851788	.02500001	.56291912
24	.08100000	.11880046	.31937100	.00700000	.11880046

RUN NUMBER 689	HISTORIES 1000	ENERGY SET 28	ANGLE SET 2541	SLANT MFP 4.874472
INC. ENERGY 3.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 4.600000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.015000	.024856	.003458	.043000	.091403	.012717
2	.006000	.008245	.001058	.028000	.048957	.006279
3	.003000	.004561	.000803	.020000	.038802	.006833
4	.006000	.007439	.002102	.019000	.045604	.012888
5	.004000	.007151	.003109	.027000	.045118	.019616
6	.012000	.016750	.011288	.045000	.080313	.054124
7	.005000	.008571	.007267	.031000	.076620	.064961
8	.005000	.005576	.004970	.021000	.046925	.041824
9	.007000	.011071	.010108	.103000	.186602	.170376
10	.011000	.019059	.018231	.078000	.190364	.182088

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.012000	.045836	.029304	.028000	.106952	.066547
2	.008000	.030558	.019203	.029000	.110772	.065573
3	.009000	.028648	.012103	.030000	.095493	.060316
4	.004000	.012732	.007752	.036000	.114591	.082436
5	.004000	.012732	.006411	.042000	.133690	.099979
6	.005000	.015915	.014396	.035000	.111408	.100342
7	.007000	.022282	.020885	.026000	.082760	.097077
8	.010000	.019099	.015813	.059000	.112681	.122412
9	.005000	.009549	.007149	.026000	.049656	.076501
10	.005000	.009549	.011472	.029000	.055386	.083271
11	.003000	.005730	.011170	.022000	.042017	.077570
12	.002000	.000955	.003094	.053000	.025306	.100492

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.081000	.069394	.007000	.074000	.113280	.062394	.002399

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.415000	.850708	.571705	.018807	.780927	.001000	.503000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.097271	.135956

4604.402618

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
690	3.00000000	.86603000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
	.04923801	.08816100	.04702053	.04054704	.04375403
1	.14332530	.11145024	.08545416	.06107101	.07998342
2	.16323846	.19411350	.10114256	.06191878	.13522215
3	.23726285	.22704411	.12719578	.08205994	.19818687
5	.23224475	.17645993	.17507194	.12530807	.15564154
8	.23794747	.18448764	.11719779	.08566152	.08586860
12	.20290229	.17143494	.10805607	.07889274	.07245030
18	.10111830	.07874648	.02941870	.04168282	.03405771
24	.03296341	.01311062	.00372923	.00924704	.00584751
INCHES	6	7	8	9	10
	.07999648	.06265700	.05157253	.19427347	.24337853
1	.17299187	.10501323	.09008071	.23302488	.31700533
2	.18529669	.13852323	.13988037	.25037881	.43961720
3	.23661192	.16037845	.14891999	.26777696	.40468415
5	.19476361	.17442671	.13795521	.23517931	.31564334
8	.17068837	.13066258	.09945808	.14739336	.22464246
12	.15159916	.08704922	.05082894	.13760338	.10175282
18	.05543748	.02515224	.03131063	.03759104	.05055630
24	.01060032	.00543116	.01347415	.01897351	.01057549

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
	.00123376	.00112314	.01087963	.00262405	.00133025
1	.00123376	.01314375	.01075441	.00342227	.02142056
2	.00591683	.01318062	.01061797	.02241414	.03758972
3	.01846164	.02567630	.02401194	.01422241	.05273106
5	.05095817	.03046336	.04025744	.02957720	.02367997
8	.03737748	.05248902	.03642803	.03174200	.03009193
12	.03493898	.03485668	.00320721	.02454736	.01169780
18	.03296341	.01311062	.00372923	.00924704	.00584751
24					
INCHES	6	7	8	9	10
	.03540078	.03111845	.01637177	.01651837	.14229804
1	.04609309	.03124760	.04281781	.05545394	.22972929
2	.06348862	.04549174	.05099875	.07166934	.26483049
3	.07806090	.05380133	.06234256	.09940872	.21691262
5	.07616259	.05408914	.04442789	.07856438	.16473963
8	.05498458	.05460505	.02681153	.07862167	.08418171
12	.02385773	.01376767	.02224033	.02893106	.04604887
18	.01060032	.00543116	.01347415	.01897351	.01057549
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	5.52476864	1.15469441	2.02180327
1	.92300000	1.17102776	5.43570879	.91336328	2.31276343
2	.85599999	1.17815518	5.28977646	.72283870	2.53217047
3	.79799999	1.15777196	5.00088154	.57157374	2.66170277
5	.67799999	1.00243006	4.04553537	.35680058	2.27949499
8	.53099999	.76958802	2.75477734	.17666825	1.66067612
12	.35999999	.55661466	1.75113554	.06928167	1.23185153
18	.16200000	.26025940	.73740119	.01616572	.50123743
24	.07100000	.12741653	.31314828	.00346409	.12741653

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
690	1000	28	84	5.628526
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
3.000000	.866030	.000010	1.154694	5.311594

SLAB CONFIGURATION NEVADA TEST SITE SOIL (80% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1	.013000	.027579	.003837	.032000	.042642	.005933
2	.009000	.010696	.001372	.040000	.076350	.009793
3	.003000	.003653	.000643	.027000	.040721	.007170
4	.005000	.010028	.002834	.022000	.035115	.009924
5	.003000	.007260	.003156	.023000	.037892	.016475
6	.005000	.011290	.007608	.049000	.069279	.046688
7	.004000	.004538	.003847	.033000	.054263	.046005
8	.005000	.010291	.009172	.030000	.044663	.039809
9	.013000	.016232	.014821	.099000	.168247	.153617
10	.008000	.009627	.009209	.095000	.210773	.201609

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.010000	.019099	.010020	.070000	.133690	.075898
2	.008000	.015279	.010618	.068000	.129870	.092507
3	.008000	.015279	.006944	.051000	.097403	.068161
4	.016000	.030558	.017069	.065000	.124141	.088257
5	.004000	.007639	.004714	.038000	.072574	.087676
6	.006000	.011459	.011467	.035000	.066845	.080048
7	.003000	.005730	.008115	.032000	.061115	.056938
8	.006000	.011459	.012546	.036000	.068755	.071842
9	.001000	.001910	.001361	.016000	.030558	.123313
10	.003000	.005730	.011442	.010000	.019099	.063422
11	.001000	.001910	.002765	.015000	.028648	.115486
12	.002000	.003820	.010847	.014000	.026738	.102087

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.071000	.059500	.003000	.068000	.111194	.056500	.002365
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.450000	.779945	.537023	.020823	.765117	.002000	.477000
MEAN ENERGY SCAT. TR. NT.			MEAN ENERGY REFL. NT.			
4604.405236			138820			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
691	3.00000000	.70711000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.07705052	.07926348	.02965802	.04224848	.06411401
1	.15080220	.10785968	.07289512	.07056548	.09246937
2	.17200479	.16792492	.12156632	.08124710	.10895738
3	.19924305	.20437212	.14491972	.11337730	.09315007
5	.18952959	.23009299	.14027446	.13504750	.12088059
8	.24987222	.16115209	.11361995	.08048195	.12824857
12	.19816977	.12790596	.07898201	.06339532	.05536689
18	.10454136	.05066356	.04890006	.02988607	.03403774
24	.01219553	.00710218	.00368689	.00544498	.00930885
INCHES	6	7	8	9	10
	.12856101	.07428949	.06073253	.22384053	.23601700
1	.15472891	.11517390	.10249810	.32819740	.41752746
2	.20668062	.13934416	.12270931	.29523492	.43870901
3	.24971151	.16701992	.16109369	.33543570	.43876865
5	.22515308	.14948142	.14531805	.27346777	.30687510
8	.18233463	.10796096	.10255545	.16908172	.18370401
12	.13331503	.06425532	.05346188	.07163457	.11317491
18	.04697392	.01791528	.05039405	.03416144	.02723222
24	.00770583	.00536956	.01028413	.00840845	.00762923

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00576020		.01147778
2	.00290562	.00242768	.00709287	.00667581	.02782412
3	.00527816	.00249089	.01612488	.01951338	.02781567
5	.02095102	.03480155	.03136970	.03235404	.03615472
8	.05629509	.06331865	.03555245	.02860199	.03101363
12	.05117399	.04022854	.03107568	.02370920	.01947978
18	.04039850	.02641688	.01138438	.01248570	.02168492
24	.01219553	.00710218	.00368689	.00544498	.00930885
INCHES	6	7	8	9	10
1	.01491665	.02477178	.01247382	.03978164	.22585714
2	.04467024	.04641533	.04165854	.08046557	.29858160
3	.07024167	.04500890	.05850584	.12584349	.31989263
5	.07652257	.05499893	.07059393	.13933541	.23462179
8	.07055771	.04928252	.05513979	.06561481	.14093774
12	.06963220	.03679362	.04070541	.06032477	.08654404
18	.02073166	.01160111	.02841338	.03288368	.02480590
24	.00770583	.00536956	.01028413	.00840845	.00762923

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.76643716	1.41420712	2.36953553
1	.91300000	1.39710856	6.54146344	1.06206956	2.67478717
2	.82399999	1.35491599	6.13365516	.79619860	2.65057712
3	.75499999	1.28751092	5.64580538	.59679540	2.70388715
5	.62999999	1.06828495	4.24482837	.33658129	2.25270184
8	.45599999	.73773509	2.46530232	.14142071	1.62043225
12	.28699999	.50350766	1.55360933	.04384042	1.00350208
18	.13800000	.23787713	.63060408	.00707104	.45177674
24	.05500000	.07854985	.20787637	.00141422	.07854985

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
691	1000	2B	04	6.893513
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
3.000000	.707110	.000010	1.414207	6.505353

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.009000	.009098	.001266	.044000	.054483	.007580
2	.005000	.005243	.000672	.042000	.056048	.007189
3	.002000	.002260	.000398	.020000	.020971	.003693
4	.004000	.003855	.001089	.027000	.029874	.008443
5	.005000	.008188	.003560	.033000	.045336	.019711
6	.005000	.004878	.003287	.057000	.090907	.061263
7	.004000	.003705	.003141	.041000	.052531	.044537
8	.008000	.007710	.006872	.029000	.042945	.038277
9	.006000	.006266	.005721	.119000	.158280	.144516
10	.006000	.005150	.004926	.093000	.166890	.159634

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.012000	.022918	.011027	.077000	.147059	.069021
2	.013000	.024828	.011455	.068000	.129870	.077847
3	.005000	.009549	.004854	.069000	.131780	.070710
4	.008000	.015279	.007981	.066000	.126050	.068960
5	.003000	.005730	.005531	.041000	.078304	.068908
6	.006000	.011459	.007888	.049000	.093583	.083738
7	.004000	.007639	.006159	.038000	.072574	.073379
8	.002000	.003820	.000709	.035000	.066845	.054159
9				.015000	.028648	.096447
10	.001000	.001910	.003473	.016000	.030558	.096864
11				.016000	.030558	.083458
12				.015000	.028648	.101587

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.055000	.031933	.001000	.054000	.056353	.030933	.001835

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.505000	.718265	.494843	.022745	.752966	.001000	.439000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
4604.405236	135118

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
692	3.00000000	.34202000	.00001010	2B

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.05663749	.07080451	.03279101	.04008401	.09834695
1	.12469712	.15161109	.07206237	.08877538	.12685112
2	.14046583	.15349772	.09184437	.09608086	.13423147
3	.17298618	.17703922	.07796812	.10838635	.11467403
5	.20306674	.19113597	.12274282	.11803170	.12634477
8	.17274431	.18252712	.10506216	.05944069	.10122485
12	.13317336	.09865028	.05731101	.03407081	.03507846
18	.04381616	.03073395	.02458981	.01349516	.01364021
24	.00116760	.01631008	.00695229	.00161193	.00602432
INCHES	6	7	8	9	10
	.13633449	.12474202	.07006700	.29835202	.39903800
1	.21093976	.17892441	.17133860	.31915327	.62127841
2	.23453981	.18650412	.16567207	.31781300	.49827016
3	.24129659	.17757167	.13702423	.29328011	.39063878
5	.23489347	.15311315	.12022705	.21576443	.26756447
8	.15035290	.11123165	.05296622	.11275559	.11632357
12	.07263348	.04284941	.02902520	.05008693	.03391565
18	.01631280	.01198136	.00751660	.00488101	.01155732
24	.00152548			.00432275	.00697188

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
		.00121591	.00944785	.00583216	.01236274
1		.01662594	.01850437	.00994784	.04060669
2	.01262923	.03005629	.02066197	.00759009	.02978132
3	.02840500	.01867412	.02714074	.03087610	.03735600
5	.02871196	.04932924	.03333638	.02038624	.04642189
8	.04476456	.03239408	.02678150	.01229796	.01696869
12	.01728941	.01619393	.01244504	.00561037	.00724112
18	.00116760	.01631008	.00695229	.00161193	.00602432
24					
INCHES	6	7	8	9	10
	.06675021	.03514298	.02333284	.09159123	.36358741
1	.06909660	.08198205	.05788803	.13886627	.34709199
2	.08421914	.08734186	.06711897	.15136672	.32630151
3	.07813533	.08667650	.05418003	.11489224	.23447127
5	.05903354	.04568170	.03055678	.07497495	.10545763
8	.03087794	.02746882	.02005648	.02786488	.03271588
12	.00998264	.00637383	.00539529	.00488101	.01155732
18	.00152548			.00432275	.00697188
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	13.98928537	2.92380562	4.18695147
1	.80699999	2.22320405	10.32102099	1.61394071	3.67957224
2	.66499999	1.67237049	7.40275066	.89176070	2.91068012
3	.57799999	1.30826646	5.54252438	.49119936	2.38206461
5	.44699999	.85992142	3.28835481	.14911411	1.90199868
8	.30999999	.51728077	1.60692197	.02339046	1.18801953
12	.17000000	.27219079	.67828288		.58679459
18	.06200000	.09696996	.20518598		.17852438
24	.02300000	.04488633	.08404074		.04488633

RUN NUMBER 692	HISTORIES 1000	ENERGY SET 28	ANGLE SET 0°	SLANT MFP 14.252008
INC. ENERGY 3.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 13.449506

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.000422	.000059	.031000	.019371	.002695
2	.006000	.004632	.000594	.045000	.024217	.003106
3	.002000	.002445	.000431	.020000	.011215	.001975
4	.001000	.000671	.000190	.025000	.013709	.003874
5	.004000	.002114	.000919	.047000	.033637	.014625
6	.001000	.000671	.000452	.079000	.046629	.031424
7				.061000	.042664	.036172
8				.031000	.023964	.021359
9	.003000	.001515	.001384	.122000	.102042	.093169
10	.005000	.002609	.002495	.162000	.136479	.130545

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000290	.082000	.156608	.037053
2	.004000	.007639	.001293	.078000	.148969	.043396
3	.004000	.007639	.002390	.073000	.139419	.037923
4	.003000	.005730	.001016	.077000	.147059	.038665
5	.002000	.003820	.001784	.047000	.089763	.046408
6	.002000	.003820	.002034	.050000	.095493	.048537
7	.003000	.005730	.001948	.048000	.091673	.039561
8	.002000	.003820	.000527	.080000	.152788	.074142
9	.001000	.001910	.000680	.022000	.042017	.066851
10				.016000	.030558	.046558
11	.001000	.001910	.000496	.016000	.030558	.051320
12				.034000	.064935	.116920

(S+U) NO. TRAN.FACT. .023000	(S+U) DOSE TRAN. FACT. .006523	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .023000	SCAT.NO.FLX TRAN. FACT. .015079	SCAT. DOSE TRAN. FACT. .006523	SCAT. EGY. TRAN. FACT. .000742
NUMBER REFL. FACT. .623000	NO. FLUX REFL. FACT. .453928	DOSE REFL. FACT. .338945	ENERGY REFL. FACT. .031155	ENERGY ABS. FACTOR .681017	NUMBER ABS. FACTOR .002000	NO. CUTOFF FACTOR .352000
4604.405236		MEAN ENERGY SCAT.TR.NT. .096788	MEAN ENERGY REFL. NT. .150025			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
693	5.00000000	1.00000000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03671108	.05954693	.02202469	.01338291	.02142329
2	.10034993	.06931098	.05985921	.02966160	.04859670
3	.14185603	.11181032	.05564779	.06558233	.07988458
5	.21570423	.11806194	.08368665	.08516975	.11294070
8	.22782408	.20502336	.07998288	.07684848	.10544424
12	.27793280	.20260628	.11386344	.09909043	.07058090
24	.27382117	.17057292	.09364163	.08405097	.07065923
36	.10028937	.05761277	.02949971	.01289100	.01465125
	.00566577	.00249970		.00109085	

INCHES	6	7	8	9	10
1	.06657690	.06621236	.10665950	.10676169	.14288689
2	.09323266	.11227700	.15033864	.18661722	.29006463
3	.15409546	.11034459	.16027604	.18541442	.33191507
5	.14651025	.12877259	.19818591	.18348137	.36500563
8	.16796395	.18100987	.18514878	.19192076	.35993810
12	.17348896	.21249058	.17218393	.13491251	.22378704
24	.13602570	.13427790	.16291831	.08208021	.20212983
36	.04640725	.05789240	.05167655	.02277105	.05906102
	.00101646	.00544173	.00691227	.00124547	.00567459

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00573591	.00719394	.00406531
2		.00208428	.00122757	.00139970	.01719919
3	.00271087	.00332677	.00408153	.00247415	.02497257
5	.01167944	.02104407	.01073439	.01724928	.01692671
8	.02783439	.02593317	.02718781	.02741475	.02902370
12	.03913515	.03623289	.03744798	.01634862	.01936565
24	.02294546	.01908690	.01433251	.00916515	.00531024
36	.00566577	.00249970		.00109085	

INCHES	6	7	8	9	10
1	.00599098	.01354813	.01427952	.03906172	.12191984
2	.02848412	.03278220	.02888093	.05179522	.17718382
3	.04109601	.04057840	.03853412	.06035614	.21531382
5	.04065574	.06034096	.06348383	.09423304	.20608662
8	.03764085	.07456391	.08400973	.05792688	.16995214
12	.03955156	.04870742	.08501354	.05139631	.15651452
24	.01065850	.01930477	.02585130	.01630194	.04116446
36	.00101646	.00544173	.00691227	.00124547	.00567459

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	5.76923077	1.00000000	1.59015186
2	.95000000	1.05479536	5.90561057	.84300000	1.98330857
3	.89200000	1.05103702	5.73445157	.71000000	2.10682664
5	.84099999	1.03144438	5.47507070	.59800001	2.23551902
8	.74699999	.96743408	4.82709249	.42500000	2.20610451
12	.61699999	.81548733	3.66555332	.25400001	1.93493687
24	.45799999	.65771365	2.71885272	.12799999	1.53817786
36	.13500000	.20012123	.69076721	.01599999	.46875237
	.02400000	.03154685	.11164594	.00200000	.03154685

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
893	1000	2A	254I	6.167081

INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
5.000000	1.000000	.000010	1.000000	5.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.004000	.005577	.000615	.020000	.036711	.004051
2	.002000	.002455	.000250	.028000	.059547	.006057
3				.015000	.022025	.003076
4	.001000	.001065	.000239	.011000	.013383	.003000
5				.014000	.021423	.007387
6	.001000	.001011	.000540	.030000	.066577	.035584
7	.004000	.005266	.003632	.032000	.066212	.045664
8	.004000	.009819	.007280	.059000	.106659	.079075
9	.001000	.001262	.001023	.055000	.106762	.086514
10	.005000	.005699	.005404	.067000	.142887	.135496

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.015279	.008779	.034000	.129870	.077450
2	.002000	.007639	.003716	.027000	.103132	.064712
3	.004000	.012732	.009796	.028000	.089127	.066864
4	.002000	.006366	.006383	.027000	.085943	.055975
5	.003000	.009549	.007509	.031000	.098676	.080673
6	.001000	.003183	.002958	.022000	.070028	.066167
7	.001000	.003183	.000468	.018000	.057296	.047163
8	.003000	.005730	.002935	.037000	.070665	.070004
9	.001000	.001910	.002428	.028000	.053476	.056467
10				.029000	.055386	.073635
11				.015000	.028648	.042707
12	.001000	.000477	.002094	.035000	.016711	.067805

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.024000	.020983	.002000	.022000	.032155	.018983	.000868

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.331000	.642186	.405904	.014189	.847425	.083000	.562000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
5805.502618	214330

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
694	5.00000000	.86603000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06838703	.03310501	.03741603	.01920802	.06638204
2	.07454009	.06229342	.05169541	.05100192	.09211366
3	.14653691	.11801378	.08388001	.09158144	.09600596
5	.16860186	.13401963	.06921865	.06743720	.09288440
8	.16098614	.14149593	.08940267	.06631240	.10276374
12	.20022194	.20422857	.12778984	.06107512	.10543131
24	.22198355	.14257370	.07247618	.07877059	.05718544
36	.06668467	.06275155	.02575947	.01929084	.02871449
	.01085330	.00918249	.00204491		.00354766
INCHES	6	7	8	9	10
1	.04890255	.06809400	.11011301	.11984250	.20198398
2	.09914186	.09739475	.20263570	.15469920	.27803937
3	.10927677	.13037123	.20831619	.16042461	.32991059
5	.15426203	.12924594	.19262847	.18716952	.36167492
8	.16854482	.19260174	.19039244	.14695203	.35557629
12	.14189554	.23077563	.22957278	.17120543	.27847292
24	.15664145	.15754913	.16827272	.11022419	.17865955
36	.03580875	.03447483	.03422987	.03988763	.02616898
	.00170990	.00275374	.00393436	.00185824	.00407349

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.03146276	.00297533	.00363364
2		.00166354	.00562689	.01086243	.00625052
3	.00156995	.01090425	.00258841	.00588095	.02056965
5	.01915779	.01088449	.01473199	.01284931	.02824469
8	.02639614	.03898055	.02303932	.02326742	.02214758
12	.04004551	.04138192	.01895492	.01676350	.01721872
24	.01636355	.02377236	.00488069	.00698677	.00443087
36	.01085330	.00918249	.00204491		.00354766
INCHES	6	7	8	9	10
1	.00856766	.03154401	.03194474	.03828795	.09894431
2	.01963685	.05562549	.04103792	.03264587	.18950492
3	.03159404	.04842853	.05248660	.06847489	.24394185
5	.03252327	.04614165	.08195303	.07365107	.25047047
8	.03587316	.07596548	.12144478	.07855453	.21226656
12	.06132465	.06445255	.08217158	.06968116	.13447421
24	.01810411	.02275689	.02050515	.02764157	.02491491
36	.00170990	.00275374	.00393436	.00185824	.00407349

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	6.66169852	1.15469441	1.88572799
1	.93600000	1.16536451	6.52868924	.94800410	2.11155949
2	.85900000	1.13996377	6.20479173	.77710933	2.25142683
3	.80499999	1.12383044	5.97336712	.63739132	2.19453396
5	.70199999	1.00015407	5.01863718	.42954631	2.04457453
8	.57099999	.89464788	4.05359452	.23671235	1.98738145
12	.42299999	.65385531	2.65486894	.10738658	1.45172310
24	.11700000	.17959445	.61683895	.00923756	.38300865
36	.01800000	.03995810	.08861516		.03995810

RUN NUMBER 694	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 0φ	SLANT MFP 7.121094
INC. ENERGY 5.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 6.697228

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
30.4800	30.4800			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003000	.007260	.000801	.032000	.059225	.006535
2	.002000	.006191	.000630	.019000	.028670	.002916
3	.001000	.001700	.000237	.015000	.032403	.004525
4				.015000	.016635	.003728
5	.002000	.003399	.001172	.027000	.057489	.019824
6	.001000	.001700	.000908	.027000	.042351	.022636
7	.002000	.002768	.001909	.031000	.058971	.040670
8	.003000	.003837	.002845	.059000	.095361	.070699
9	.001000	.001700	.001377	.069000	.103787	.084103
10	.003000	.003469	.003289	.087000	.174924	.165876

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.003204	.067000	.127960	.062170
2	.001000	.001910	.001513	.049000	.093583	.067685
3	.002000	.003820	.001721	.048000	.091673	.062712
4	.003000	.005730	.001858	.047000	.089763	.058922
5	.003000	.005730	.004427	.021000	.040107	.043479
6	.003000	.005730	.006604	.029000	.055386	.065165
7	.001000	.001910	.002630	.042000	.080214	.086852
8	.001000	.001910	.001119	.029000	.055386	.057409
9				.010000	.019099	.071014
10				.018000	.034377	.115089
11	.002000	.003820	.002075	.010000	.019099	.052543
12				.011000	.021008	.061989

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.018000	.013169		.018000	.032023	.013169	.000624

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.381000	.669817	.421514	.017055	.823198	.076000	.525000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
5805.505236	223821

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
695	5.00000000	.70711000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.03996551	.04130301	.04657904	.03667505	.03329002
2	.13402718	.06321466	.04853441	.04507954	.06325556
3	.15117589	.10861813	.05749142	.08962126	.10694860
5	.13816681	.13354131	.08902923	.06344539	.08990880
8	.18229261	.17481605	.08107087	.07066704	.12265212
12	.21416013	.18471868	.10733205	.10787503	.09716128
24	.20106046	.10891972	.06231949	.04192096	.06404243
36	.04888785	.03051876	.01889506	.00525593	.03229970
	.00213665	.00144099	.00225473		

INCHES	6	7	8	9	10
1	.05892751	.09965101	.10680153	.12285798	.26134197
2	.10086617	.13257461	.17671232	.21284740	.39911352
3	.13216498	.18470194	.20713095	.24569780	.39460909
5	.17561854	.20761098	.28371193	.22188059	.42009301
8	.25737535	.21871277	.25468383	.18836161	.42210809
12	.18059892	.17653111	.19646132	.12153280	.25347353
24	.10458624	.16339228	.12943423	.08902927	.17680375
36	.03321735	.02581655	.02885591	.01219276	.02722799
	.00132037	.00127845	.00285698		.00227466

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1				.00227825	.00481929
2	.00145713		.00386595	.00101650	.00497271
3	.00508650	.00513608	.00766517	.00319863	.00435189
5	.00894073	.01828188	.01193468	.00835194	.01343302
8	.02909219	.03203126	.02955406	.03175491	.01837199
12	.05531669	.02845501	.01475551	.01256951	.02902412
24	.01664236	.00347644	.00685310	.00259736	.01078256
36	.00213665	.00144099	.00225473		

INCHES	6	7	8	9	10
1	.00478407	.01686761	.02310249	.04594147	.16055413
2	.01630486	.02234412	.04076881	.08746128	.23503128
3	.02636723	.05203719	.08416064	.09875607	.27513486
5	.05921954	.07414591	.11558914	.09693212	.30511839
8	.05825800	.04780114	.09147070	.05517951	.22268701
12	.04486472	.03865000	.06677352	.04485449	.13985914
24	.01290680	.01198988	.01880984	.00490288	.02294849
36	.00132037	.00127845	.00285698		.00227466

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	8.15888725	1.41420712	2.22729507
1	.90500000	1.36849991	7.73926026	1.11015258	2.48637798
2	.82999999	1.28437423	7.12833179	.87115159	2.54931165
3	.78099999	1.24495630	6.67169924	.68306205	2.50606864
5	.66199999	1.13338106	5.69103952	.42143372	2.39417407
8	.49999999	.81984661	3.62197489	.20364583	1.84349069
12	.33499999	.55148989	2.17369997	.07636717	1.21787604
24	.08200000	.11473813	.38009600	.00282841	.26599629
36	.01000000	.01356282	.03813714		.01356282

RUN NUMBER 695	HISTORIES 1000	ENERGY SET 2A	ANGLE SET $\theta\phi$	SLANT MFP 8.721530
INC. ENERGY 5.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 8.202401

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.002000	.001595	.000176	.027000	.028260	.003118
2	.001000	.000873	.000089	.020000	.029206	.002971
3	.001000	.001388	.000194	.016000	.032936	.004600
4				.023000	.025933	.005813
5				.021000	.023540	.008117
6	.001000	.000873	.000466	.032000	.041668	.022271
7	.001000	.000873	.000602	.050000	.070464	.048596
8	.002000	.002260	.001676	.057000	.075520	.055989
9				.068000	.086874	.070398
10	.002000	.001595	.001512	.110000	.184798	.175239

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.003820	.001460	.071000	.135600	.062430
2	.002000	.003820	.001419	.051000	.097403	.047647
3	.001000	.001910	.001149	.050000	.095493	.057247
4	.003000	.005730	.002640	.063000	.120321	.070386
5				.026000	.049656	.041701
6	.002000	.003820	.002335	.037000	.070665	.067501
7				.032000	.061115	.048711
8				.043000	.082124	.069283
9				.012000	.022918	.073972
10				.009000	.017189	.055930
11				.016000	.030558	.094177
12				.014000	.026738	.069441

(S+U) NO. TRAN. FACT. .010000	(S+U) DOSE TRAN. FACT. .004715	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .010000	SCAT. NO. FLX TRAN. FACT. .009455	SCAT. DOSE TRAN. FACT. .004715	SCAT. EGY. TRAN. FACT. Q00328
NUMBER REFL. FACT. .424000	NO. FLUX REFL. FACT. .599200	DOSE REFL. FACT. .397112	ENERGY REFL. FACT. Q19586	ENERGY ABS. FACTOR .800851	NUMBER ABS. FACTOR .100000	NO. CUTOFF FACTOR .466000
5805.505236		MEAN ENERGY SCAT. TR. NT. 1.64182	MEAN ENERGY REFL. NT. 230965			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
696	5.00000000	.34202000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03419653	.04846701	.04772353	.02918001	.05046753
2	.08466618	.09371515	.05706553	.04922822	.08372570
3	.09935545	.11495338	.07759538	.07296609	.10725586
5	.13617400	.13422831	.10914894	.07027634	.12508877
8	.20758931	.13287912	.08044671	.07895671	.10045441
12	.13674513	.17480990	.09158476	.08968768	.07140489
24	.13643728	.09422954	.04473215	.04461548	.03331365
36	.01879076	.03050821	.01492275	.01028425	.00106171
	.00467809	.00126720			
INCHES	6	7	8	9	10
1	.07350600	.13082352	.14502148	.25860902	.42861799
2	.10302523	.19286783	.29728093	.29324977	.61215662
3	.17088843	.19934123	.28103902	.32466793	.50158382
5	.24890007	.22688039	.31094054	.22398079	.48965477
8	.17620826	.16686270	.24291040	.13274521	.32012233
12	.12770452	.15738308	.14684858	.08940301	.17755674
24	.09238626	.10375258	.06851765	.03301624	.06647808
36	.00767621	.01648572	.00460194	.01138469	.00211689
	.00184263				.00129666

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00256151	.00238481	.00330220	.00923047
2		.01240605	.00656046	.00110580	.02551083
3	.00607563	.02461309	.00885283	.01361284	.02760930
5	.02149820	.02336385	.02574016	.02092136	.02741614
8	.00903698	.03701804	.02829998	.03166236	.03209124
12	.03720467	.03430711	.01704848	.00890119	.01464878
24	.01135595	.00581103	.00572078	.00409118	.00106171
36	.00467809	.00126720			
INCHES	6	7	8	9	10
1	.01682446	.02540865	.08113457	.08640798	.29239806
2	.04368437	.06616566	.08268256	.15154086	.31687500
3	.04525040	.07764287	.12061384	.10582389	.32395181
5	.06696023	.07872967	.09372652	.07954830	.25883446
8	.05709038	.06960166	.09766283	.06223482	.14367690
12	.03684625	.05422071	.04722010	.02334335	.06170901
24	.00617689	.01093994	.00136542	.00540444	.00211689
36	.00184263				.00129666

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	16.86810937	2.92380562	4.10284416
2	.82199999	2.29147894	12.84924300	1.77182619	3.63880738
3	.68699999	1.77956826	9.55679793	1.07303665	3.02268326
5	.58699999	1.40313134	7.18438488	.64908485	2.72435777
8	.45899999	.93356716	4.27947716	.23682825	1.87600342
12	.33399999	.62100369	2.46250741	.05262848	1.31575680
24	.20799999	.34129726	1.13503185	.00584760	.72332651
36	.03400000	.05404421	.12905074		.11783313
	.00500000	.00908458	.01545086		.00908458

RUN NUMBER 696	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 04	SLANT MFP 18.031347
INC. ENERGY 5.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 16.958073

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.002000	.002694	.000297	.022000	.011696	.001291
2	.001000	.000422	.000043	.028000	.016577	.001686
3				.022000	.016322	.002279
4				.017000	.009980	.002237
5				.026000	.017261	.005952
6	.001000	.000671	.000359	.045000	.025140	.013437
7				.060000	.044744	.030858
8				.070000	.049600	.036771
9				.106000	.088449	.071675
10	.001000	.000422	.000400	.162000	.146596	.139013

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.071000	.135600	.026003
2	.001000	.001910	.000082	.067000	.127960	.034398
3				.052000	.099312	.029031
4	.001000	.001910	.000764	.075000	.143239	.038795
5				.048000	.091673	.043420
6				.046000	.087853	.041320
7	.002000	.003820	.000827	.050000	.095493	.045736
8				.058000	.110772	.050819
9				.018000	.034377	.048570
10				.015000	.028648	.046791
11				.018000	.034377	.050562
12	.001000	.001910	.000426	.040000	.076394	.127443

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.005000	.001099		.005000	.004210	.001099	.001000

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.558000	.426366	.305201	.028168	.717309	.086000	.351000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
0.99881	252404

5805.505236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
697	14.00000000	1.00000000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.04955649	.03138970	.01324972	.01376069	.03059198
2	.09893129	.06334222	.01963506	.03369593	.05047739
3	.08303719	.09550858	.04788238	.08257583	.07615014
5	.14446968	.10075819	.04376394	.04688337	.08098636
8	.15634660	.11379580	.07217640	.08406891	.08323243
12	.16851241	.12484272	.06326416	.05237367	.06948409
24	.08648921	.09325092	.06520957	.05945112	.05847483
36	.07196100	.04873244	.03023507	.01051283	.01596172
	.00104969	.00361201			.00487335

INCHES	6	7	8	9	10
1	.06192560	.07440598	.06067979	.05814638	.13176070
2	.09320877	.10939221	.07544261	.10111043	.23808739
3	.11826855	.13187579	.10805957	.06889489	.30157632
5	.15926591	.15316114	.09475060	.08194524	.32120367
8	.13098560	.11415146	.09162754	.12418581	.31251822
12	.14067916	.13924936	.08442622	.08252769	.28756719
24	.06046098	.08100011	.06375542	.06483925	.22933142
36	.02120658	.03176898	.02848814	.02853441	.06722882
	.00455444	.00402193	.00100556	.00178382	.01153558

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00800000	.00178199	
2		.00257862	.00249122	.01120644	.00182996
3	.00756676	.00468739	.00223853	.01133386	.00984630
5	.03025948	.03292503	.00933382	.01421010	.02507046
8	.03542714	.02687376	.00909926	.01095002	.01501514
12	.01546638	.02544687	.01999166	.02842093	.01195137
24	.02000416	.01871744	.00567222	.00367380	.00786741
36	.00104969	.00361201			.00487335

INCHES	6	7	8	9	10
1	.00799728	.02600745	.00892359	.02404870	.10412279
2	.01744960	.03495320	.03784204	.02404972	.16511725
3	.04121295	.05373135	.03142753	.02993314	.19305163
5	.05177903	.03696908	.03019134	.04402514	.23109020
8	.03679454	.05379181	.03992426	.04597622	.22795452
12	.02320845	.04569565	.03626627	.02393142	.16827961
24	.00766656	.01395743	.01303891	.01055656	.06283148
36	.00455444	.00402193	.00100556	.00178382	.01153558

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	7.00000000	1.00000000	1.48617825
2	.93900000	1.03188180	6.98741247	.85100000	1.73432331
3	.89200000	1.02251807	6.73524044	.72500001	1.83882925
5	.82099999	1.00202943	6.34116059	.61700001	1.84418810
8	.72799999	.95285368	5.51228229	.44700000	1.73008879
12	.58799999	.77680667	4.34295399	.27500000	1.48792668
24	.39699999	.54265862	2.80480693	.14400001	1.00626283
36	.13200000	.18398597	.81762405	.02000001	.37462999
	.02600000	.03543639	.15976368	.00300000	.03543639

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
697	1000	2	2541	5.803650
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
14.000000	1.000000	.000010	1.000000	7.000000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.001065	.000097	.026000	.049556	.004531
2	.002000	.003728	.000314	.021000	.031390	.002646
3				.007000	.013250	.001533
4	.781000			.781000	.013761	.002556
5	.002000	.007360	.002103	.015000	.030592	.008741
6	.004000	.004542	.002012	.028000	.061926	.027424
7	.003000	.003956	.002260	.035000	.074406	.042518
8	.001000	.001011	.000621	.030000	.060680	.037275
9	.781000	.001843	.001343	.801000	.058146	.042364
10	.009000	.011522	.011192	.066000	.131761	.127996

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.015279	.010036	.020000	.076394	.039186
2	.003000	.011459	.002516	.021000	.080214	.046548
3	.003000	.009549	.008504	.026000	.082760	.049245
4	.781000	2.485994	.007339	.801000	2.549656	.039822
5	.001000	.003183	.003903	.018000	.057296	.038891
6	.003000	.009549	.008517	.022000	.070028	.038361
7	.002000	.006366	.005781	.017000	.054113	.045286
8	.001000	.001910	.001744	.025000	.047746	.045096
9	.002000	.003820	.005985	.028000	.053476	.058647
10	.781000	1.491597		.791000	1.510695	.046814
11	.001000	.001910	.000429	.019000	.036287	.069914
12	.001000	.000477	.000807	.029000	.013846	.044509

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.026000	.022943	.003000	.023000	.035027	.019943	.000940
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.264000	.525467	.297582	.006842	.919175	.303000	.407000
		MEAN ENERGY SCAT.TR.NT.		MEAN ENERGY REFL. NT.		
		572063		362851		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
698	14.00000000	.86603000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.04368001	.04809353	.02797353	.02288099	.03602554
2	.07643017	.07725201	.01975442	.04237273	.06482909
3	.09797494	.09744690	.08236064	.06353388	.09385540
5	.14287664	.08762761	.06622971	.04753297	.07082268
8	.14666791	.13706644	.09210878	.06760790	.08201964
12	.16157418	.12491924	.07366511	.04298761	.05565975
24	.15674989	.11055583	.04771549	.06091830	.05018110
36	.04466546	.05552915	.01469924	.01499400	.02531447
	.00142448	.01369795	.00142916		
INCHES	6	7	8	9	10
1	.04143951	.10724600	.10012000	.04269450	.14666699
2	.06841179	.14530021	.09744382	.07982763	.26896696
3	.08842509	.15187636	.12622049	.12019376	.31698863
5	.09616007	.15772573	.11265739	.07325987	.30635502
8	.16991863	.14733227	.10280011	.06723930	.35243193
12	.08879039	.10990598	.08300821	.10282090	.28619465
24	.07960153	.08522500	.06434451	.05545802	.21057787
36	.02738194	.01268761	.02377666	.02378233	.06165204
	.00229668	.00210444	.00793727	.00113955	.01063802

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00107163	.00217259
2			.00738199	.01793576	.01408865
3		.01314581	.00929765	.00421947	.02148693
5	.00830134	.02249673	.01716565	.01289147	.01620799
8	.02266624	.03874350	.01541273	.01503562	.02533984
12	.02866187	.03111682	.00801555	.01576150	.02620519
24	.01625919	.01989075	.00277408	.00610999	.00877088
36	.00142448	.01369795	.00142916		
INCHES	6	7	8	9	10
1	.00703382	.01477092	.01597774	.01929765	.11532550
2	.02215626	.02632359	.04524627	.06005941	.18212859
3	.02138621	.05039358	.04182588	.03010791	.20019488
5	.04256272	.04898417	.04075214	.03155937	.24839312
8	.04260270	.04758354	.03430142	.06013340	.22542143
12	.03330035	.03255589	.04594167	.03452157	.16075833
24	.01095503	.00823399	.00837578	.01275187	.05476612
36	.00229668	.00210444	.00793727	.00113955	.01063802

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	8.08286087	1.15469441	1.73540430
1	.92400000	1.13404623	7.76609832	.95839637	1.89898520
2	.86000000	1.17090496	7.57811428	.79558446	2.03446054
3	.77899999	1.05254352	6.70098430	.66048521	1.82173290
5	.67199999	.94426428	5.67727041	.45494960	1.82014252
8	.52899999	.78704666	4.28991534	.25980625	1.38933225
12	.34999999	.54039104	2.70302923	.12355230	1.04487985
24	.11300000	.16158932	.68617729	.01270163	.31718453
36	.02500000	.04182225	.14871028	.00115470	.04182225

RUN NUMBER 898	HISTORIES 1000	ENERGY SET 2	ANGLE SET 00	SLANT MFP 6.7014422
INC. ENERGY 14.0000000	COS. THETA .8660300	CUTOFF EGY .0000101	INC.FLX/NT 1.1546944	INC.DSE/NT 8.0828609

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

		REGION THICKNESSES (CENTIMETERS)			
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.0010000	.0010687	.0000977	.0220000	.0378282	.0034586
2	.0040000	.0130134	.0010969	.0260000	.0416504	.0035106
3	.0010000	.0010687	.0001237	.0140000	.0242259	.0028033
4				.0150000	.0198156	.0036801
5				.0190000	.0311992	.0089140
6	.0020000	.0019533	.0008651	.0260000	.0358879	.0158932
7	.0020000	.0017693	.0010110	.0500000	.0928783	.0530733
8	.0050000	.0070521	.0043320	.0390000	.0941968	.0578637
9	.0010000	.0010687	.0007786	.0250000	.0369747	.0269387
10	.0080000	.0092592	.0089946	.0700000	.1270180	.1233889

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0070000	.0133690	.0086408	.0390000	.0744844	.0396538
2	.0010000	.0019099	.0001721	.0480000	.0916730	.0519966
3	.0040000	.0076394	.0046098	.0390000	.0744844	.0327264
4	.0040000	.0076394	.0054058	.0410000	.0783041	.0478737
5				.0210000	.0401070	.0464080
6	.0020000	.0038197	.0039879	.0240000	.0458365	.0406440
7	.0010000	.0019099	.0002736	.0300000	.0572956	.0510589
8	.0030000	.0057296	.0083004	.0270000	.0515661	.0497791
9	.0020000	.0038197	.0016492	.0040000	.0076394	.0099790
10				.0100000	.0190986	.0662613
11				.0130000	.0248281	.0778196
12				.0100000	.0190986	.0578476

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0250000	.0182996	.0010000	.0240000	.0362533	.0172996	.0008175

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.3060000	.5416750	.2995244	.0071390	.9194314	.2960000	.3730000

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
70.06805236	.4769011	.3266195

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
699	14.00000000	.70711000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.02369001	.03782852	.03102752	.01700404	.04369054
2	.06839112	.07913690	.03723311	.03828776	.05714787
3	.07926531	.07815292	.04533952	.05220659	.08547693
5	.09926326	.08222301	.07386331	.07625425	.11324484
8	.16636909	.07469272	.09407759	.05849777	.08540220
12	.22370211	.14592467	.07185750	.06764419	.06593082
24	.13936977	.09549776	.03178838	.05708586	.07198875
36	.03570094	.03612539	.02005553	.00929127	.00440708
	.00515991				.00530629
INCHES	6	7	8	9	10
1	.05308451	.07142402	.07719651	.08198200	.12854398
2	.07674932	.12504811	.08666323	.08220544	.30102884
3	.10564292	.13938793	.10136451	.08001185	.44972410
5	.13345694	.16161155	.13945844	.08149359	.43033930
8	.15074098	.17432170	.11254117	.08943362	.35321919
12	.11282184	.14063263	.09892041	.09245850	.31922158
24	.09186151	.09721562	.05700122	.06516169	.17231303
36	.00983044	.01427855	.01160367	.01305434	.03156359
	.00360952	.00244338	.00322267	.00134071	.01011023

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00146643	.00105001
2		.00722695	.00111532	.00390649	.00448345
3	.00276609	.01067816	.00252763	.01215224	.01337519
5	.01649767	.00381127	.01342065	.01163921	.02320804
8	.03570530	.03110695	.02175554	.01651945	.01748215
12	.04022816	.03238915	.01393318	.01898392	.01885593
24	.00977213	.01379718	.01171227	.00327721	.00339122
36	.00515991				.00530629
INCHES	6	7	8	9	10
1	.00650280	.02897473	.01813674	.01245851	.17859822
2	.01855888	.03147631	.02975885	.02696235	.30339601
3	.02474834	.03609022	.06332927	.03809501	.32609522
5	.04449057	.07526254	.03623070	.04401012	.28673366
8	.04113754	.05003189	.05315920	.05120193	.26321184
12	.03235138	.05704438	.03379232	.03328180	.14839550
24	.00705256	.00635299	.01015589	.00921024	.03156359
36	.00360952	.00244338	.00322267	.00134071	.01011023

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	9.89944987	1.41420712	1.96988898
1	.91100000	1.37289631	9.40988046	1.12570888	2.07760057
2	.82800000	1.32349193	8.85778973	.89660733	2.11317990
3	.76199999	1.24403196	8.01548167	.71417461	2.10538307
5	.63599999	1.00785072	6.07222582	.45254628	1.81184231
8	.48599999	.80899914	4.36934581	.22768736	1.56680159
12	.32399999	.51976497	2.42476783	.09050925	.96979284
24	.07600000	.11194211	.42972368	.00565682	.19156764
36	.01900000	.03119271	.12526661		.03119271

RUN NUMBER 699	HISTORIES 1000	ENERGY SET 2	ANGLE SET 0φ	SLANT MFP 8.207563
INC. ENERGY 14.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 9.899450

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.004000	.003705	.000339	.016000	.016751	.001532
2				.023000	.026749	.002255
3				.018000	.021940	.002539
4				.011000	.012024	.002233
5	.002000	.005570	.001592	.021000	.030894	.008827
6	.002000	.002260	.001001	.026000	.037537	.016623
7	.002000	.001595	.000911	.037000	.050505	.028860
8	.001000	.004183	.002569	.040000	.054586	.033532
9	.001000	.000873	.000636	.041000	.057970	.042235
10	.007000	.007503	.007289	.058000	.090895	.088298

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.007639	.002381	.054000	.103132	.038940
2	.001000	.001910	.000152	.039000	.074484	.034261
3	.001000	.001910	.001619	.042000	.080214	.032482
4	.005000	.009549	.006142	.036000	.068755	.030085
5	.001000	.001910	.002575	.022000	.042017	.033000
6	.002000	.003820	.001931	.017000	.032468	.024841
7				.024000	.045836	.043022
8	.003000	.005730	.005391	.024000	.045836	.031527
9				.005000	.009549	.025573
10	.001000	.001910	.002282	.012000	.022918	.062318
11				.005000	.009549	.027616
12	.001000	.001910	.004907	.011000	.021008	.049743

(S+U) NO. TRAN. FACT. .019000	(S+U) DOSE TRAN. FACT. .014336	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .019000	SCAT. NO. FLX. TRAN. FACT. .025689	SCAT. DOSE TRAN. FACT. .014336	SCAT. EGY. TRAN. FACT. 000658
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NUMBER REFL. FACT. .291000	NO. FLUX REFL. FACT. .399851	DOSE REFL. FACT. .226933	ENERGY REFL. FACT. 006644	ENERGY ABS. FACTOR .926970	NUMBER ABS. FACTOR .318000	NO. CUTOFF FACTOR .372000
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7006.805236	MEAN ENERGY SCAT. TR. NT. 4.84937	MEAN ENERGY REFL. NT. 319666
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
700	14.00000000	.34202000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03240404	.05556301	.02737703	.03278656	.03818353
1	.06903130	.08634936	.05183178	.04629487	.07713829
2	.10927292	.09641679	.05146643	.05871447	.05629195
3	.13985883	.09423508	.06649621	.08975838	.08769357
5	.17058082	.10608934	.08230507	.06178077	.05745425
8	.13255602	.12002839	.05053959	.04948220	.05951827
12	.11077300	.05437433	.04269262	.02064238	.05808693
24	.02722337	.00369517	.00210208	.01149847	.00510283
36	.00290180		.00117586		

INCHES	6	7	8	9	10
1	.08802901	.11812603	.11086451	.12670302	.38429349
1	.14339877	.14383157	.14000874	.13470341	.56117278
2	.13593712	.13382330	.15157900	.15071169	.53527517
3	.13576553	.15799919	.13430865	.14289678	.51540435
5	.17406619	.12543583	.11039331	.13274712	.33315054
8	.08480239	.08987731	.07259214	.10760375	.23236472
12	.06869311	.07285484	.04230830	.01966707	.10138126
24	.00488730	.01148226	.00661709	.00986400	.01242184
36					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00359843	.00253679	.00411150
2	.00269464	.00507164	.00521621	.01055615	.00552459
3	.01562176	.01257991	.01017463	.01263042	.00630784
5	.01433954	.01537816	.01360907	.01480189	.01670050
8	.02038034	.02411791	.01948341	.01601633	.02331167
12	.03096941	.01341816	.02032878	.00712965	.01256592
24	.01159557	.00159433	.00210208	.00238917	.00399150
36	.00290180		.00117586		

INCHES	6	7	8	9	10
1	.02292420	.03754621	.02633152	.03847502	.28368881
2	.04216426	.04723821	.05895751	.06308609	.37573166
3	.04761502	.05024729	.05649289	.05814719	.38350516
5	.05399419	.06836630	.06490730	.05802539	.27048643
8	.03363390	.05013611	.04566985	.05825739	.17867421
12	.02585666	.03373835	.02881946	.01596662	.08566848
24	.00121120	.00537811	.00434407	.00462723	.01242184
36					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	20.46663937	2.92380562	3.84953238
1	.80400000	2.24366719	15.28941376	1.82445472	3.27821559
2	.66699999	1.75360136	11.50807437	1.13736038	2.61684923
3	.56299999	1.36380689	8.59921199	.71048475	2.07490134
5	.42099999	.86544653	4.93253204	.27483775	1.62884098
8	.28499999	.53692865	2.64485523	.06724751	1.06661231
12	.17400000	.28323290	1.15460711	.00877143	.60024526
24	.03200000	.04965511	.17314504		.09489442
36	.00300000	.00407767	.00291945		.00407767

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
700	1000	2	00	16.968745
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
14.000000	.342020	.000010	2.923806	20.466639

SLAB CONFIGURATION NEVADA TEST SITE SOIL (50% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
30.4800	30.4800				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.001021	.000093	.017000	.011083	.001013
2				.027000	.019004	.001602
3	.001000	.000422	.000049	.013000	.009363	.001083
4				.013000	.011214	.002083
5				.021000	.013059	.003731
6				.041000	.030108	.013333
7				.058000	.040401	.023087
8				.050000	.037918	.023292
9				.057000	.043335	.031573
10				.139000	.131436	.127681

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000061	.060000	.114591	.024358
2	.001000	.001910	.000093	.044000	.084034	.01967
3				.059000	.112681	.026474
4				.052000	.099312	.026705
5				.026000	.049656	.020049
6				.037000	.070665	.029466
7				.035000	.066845	.026300
8	.001000	.001910	.000117	.040000	.076394	.034784
9				.017000	.032468	.042418
10				.018000	.034377	.047469
11				.017000	.032468	.043980
12				.031000	.059205	.094678
(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.003000	.000142		.003000	.001443	.000142	
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.436000	.346921	.228478	.014356	.856427	.282000	.279000
		MEAN ENERGY SCAT.TR.NT.		MEAN ENERGY REFL. NT.		
7006.805236		.001867		.460985		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
573	.10000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.19735871	.03891371	.19191264	.05841806	.07674922
2	.35922048	.07877981	.44269673	.12953555	.29927577
3	.39900768	.10983590	.40814213	.16633012	.24787137
5	.37497982	.07572209	.37154935	.11558485	.18521727
8	.28418769	.03262158	.17969229	.02781701	.08803203
12	.08067091	.02603661	.03612414	.00644688	.00696610
18	.01869035	.00129088	.00599910		
24					

INCHES	6	7	8	9	10
1	.18303659				
2	.34023677				
3	.25944452				
5	.12567194				
8	.05448708				
12	.00351573				
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.03891508	.01726755	.15687469	.06140501	.20131926
2	.08333745	.03933230	.19617136	.09832590	.18431656
3	.13292033	.03878813	.17211657	.08938451	.14506751
5	.14089306	.02252827	.12549346	.02046875	.06946554
8	.04869236	.01069854	.03456750	.00644688	.00696610
12	.01435259	.00129088	.00477336		
18					
24					

INCHES	6	7	8	9	10
1	.22965298				
2	.21989011				
3	.10802643				
5	.03838486				
8	.00351573				
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	1.09999999	1.00000000	1.71920780
2	.81899999	1.13943457	1.01766293	.43399999	2.08374512
3	.65499999	1.01037368	.81314193	.18900000	1.77963172
5	.49399999	.76830348	.57172479	.08200001	1.33072533
8	.26199999	.43223394	.29613729	.01500001	.68183768
12	.07100000	.11188713	.07233710	.00100001	.16076038
18	.01400000	.02041683	.01311192		.02598033
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
878	1000	2E	2541	20.002488
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.100000	1.000000	.000010	1.000000	1.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.112000	.197359	.116621
2				.022000	.038914	.021933
3				.108000	.191913	.102935
4				.030000	.058418	.031333
5				.043000	.076749	.049538
6				.081000	.183037	.151421
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.035000	.133690	.080889
2				.039000	.148969	.097974
3				.031000	.098676	.069927
4				.028000	.089127	.066212
5				.035000	.111408	.087148
6				.030000	.095493	.080358
7				.025000	.079577	.067604
8				.048000	.091673	.091341
9				.036000	.068755	.079282
10				.027000	.051566	.069955
11				.027000	.051566	.088981
12				.035000	.016711	.065778

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.396000	.746389	.473782	.009377	.906222		.604000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.202618	.002368

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
574	.10000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.15756303	.04911502	.19903751	.07597149	.08999297
2	.31311235	.08488969	.42320339	.17990398	.30449764
3	.43646147	.11283728	.40763395	.13815038	.20012875
5	.48859079	.09014993	.41369950	.10464079	.18204766
8	.24150178	.04682834	.16020950	.03798477	.06475409
12	.11145518	.01299327	.04643352	.00600695	.00127104
18	.01739574	.00136177	.00405653		
24					

INCHES	6	7	8	9	10
1	.22930801				
2	.37340179				
3	.23269587				
5	.12365235				
8	.04369258				
12	.00117067				
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.04422887	.01467205	.09879466	.10593630	.20294512
2	.11667283	.03560092	.20701296	.10659874	.16177662
3	.15619909	.04922763	.20863262	.06053875	.13626531
5	.13797639	.02898023	.08597321	.03319888	.04610845
8	.07528182	.00970258	.02427751	.00600695	.00127104
12	.01237148	.00136177	.00405653		
18					
24					

INCHES	6	7	8	9	10
1	.24102420				
2	.18383115				
3	.11426767				
5	.04114752				
8	.00117067				
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.15469441	1.27016384	1.15469441	1.93058494
2	.79199999	1.14869446	1.02986954	.44109326	2.12010211
3	.61799999	.98007862	.76934662	.16858539	1.69649309
5	.48799999	.78863926	.57219755	.06350819	1.46628922
8	.23599999	.38262224	.26314132	.00923756	.60420863
12	.06700000	.11771057	.07493899		.17933063
18	.01100000	.01778978	.01130753		.02281403
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
874	1000	2E	04	23.096761
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.100000	.866030	.000010	1.154694	1.270164

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.093000	.136454	.080632
2				.027000	.042535	.023974
3				.114000	.172372	.092454
4				.033000	.065794	.035289
5				.047000	.077937	.050304
6				.097000	.198588	.164286
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.068000	.129870	.069640
2				.056000	.106952	.069896
3				.049000	.093583	.066111
4				.059000	.112681	.074943
5				.030000	.057296	.063031
6				.030000	.057296	.062883
7				.040000	.076394	.079378
8				.034000	.064935	.068962
9				.016000	.030558	.107884
10				.006000	.011459	.043403
11				.007000	.013369	.050962
12				.016000	.030558	.096500

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.411000	.693680	.446941	010925	.890739		.589000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.205236	002658

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
575	.10000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.19809053	.03457902	.21747701	.11655651	.15248648
2	.37096018	.08460625	.43013380	.18681909	.28765484
3	.48765017	.08271763	.47850051	.13955662	.23822194
5	.40831694	.09255703	.34235863	.07725963	.10563618
8	.21814086	.03892475	.13499727	.02384573	.01538162
12	.07183694	.00580107	.02718014	.00573395	.00135721
18	.01037370				
24					

INCHES	6	7	8	9	10
1	.20147650				
2	.38102904				
3	.19499080				
5	.10093768				
8	.02182878				
12					
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.04003269	.01573825	.18334062	.08565987	.19662306
2	.10581517	.03465104	.27224385	.10241422	.16552061
3	.15567625	.05668190	.18555475	.06714010	.08641501
5	.12683926	.02304654	.10261525	.02384573	.01298063
8	.05714788	.00172913	.01789016	.00235405	.00135721
12	.00888681				
18					
24					

INCHES	6	7	8	9	10
1	.29982810				
2	.15907627				
3	.09072534				
5	.01909316				
8					
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO. FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	1.55562783	1.41420712	2.30355421
1	.75099999	1.25679839	1.11399333	.43557579	2.17677901
2	.57399999	.97265663	.73915843	.13293548	1.75457314
3	.41999999	.68320537	.48317095	.04101201	1.16807811
5	.19599999	.31124899	.20326252	.00282841	.45594741
8	.04900000	.08047843	.05092030		.11190931
12	.00600000	.00888681	.00560375		.01037370
18					
24					

RUN NUMBER 878	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 04	SLANT MFP 28.287661
INC. ENERGY .100000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 1.555628

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL. FACTOR	DOSE REFL. FACTOR
1				.102000	.140072	.082770
2				.018000	.024451	.013782
3				.119000	.153780	.082482
4				.052000	.082418	.044206
5				.064000	.107825	.069596
6				.093000	.142466	.117858
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.080000	.152788	.066906
2				.047000	.089763	.048949
3				.041000	.078304	.042950
4				.061000	.116501	.063160
5				.029000	.055386	.048428
6				.042000	.080214	.073944
7				.046000	.087853	.076859
8				.045000	.085943	.072185
9				.012000	.022918	.066882
10				.007000	.013369	.036818
11				.013000	.024828	.063832
12				.025000	.047746	.123452

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.448000	.651012	.410694	.011722	.882770	.001000	.551000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.205236	.002617

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
576	.10000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.15715053	.03444702	.29080949	.15677948	.31375850
2	.30104147	.06030085	.37416722	.15213005	.27268273
3	.36291494	.08345666	.32777114	.11633302	.18381225
5	.30515366	.06111993	.22271306	.06065644	.10900431
8	.17065709	.03176630	.08777658	.01958048	.01854580
12	.04168235	.00279211	.01416021	.00114545	
18		.00121724			
24					

INCHES	6	7	8	9	10
1	.38240500				
2	.32662739				
3	.12671509				
5	.06381907				
8	.00133422				
12					
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.03582931	.00928109	.18085662	.08609160	.21169110
2	.12107438	.04055992	.20541599	.08290588	.14747453
3	.14399274	.02762426	.14975706	.04483201	.09749390
5	.09750810	.02122438	.05549613	.01291077	.01854580
8	.03221220	.00100608	.01184894	.00114545	
12		.00121724			
18					
24					

INCHES	6	7	8	9	10
1	.27981659				
2	.11396456				
3	.04202575				
5	.00133422				
8					
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	3.21618617	2.92380562	4.20564909
1	.54299999	1.05793741	.89976581	.25437111	1.74132079
2	.40799999	.73186190	.51709833	.02046664	1.22146974
3	.29299999	.50572572	.33775213		.82246647
5	.13400000	.20701941	.13053489		.32966047
8	.03100000	.04621268	.02852390		.05978012
12	.00100000	.00121724	.00077121		.00121724
18					
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
578	1000	2E	00	58.483387
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.100000	.342020	.000010	2.923806	3.216186

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.085000	.053749	.031761
2				.019000	.011782	.006640
3				.137000	.099463	.053348
4				.077000	.053622	.028761
5				.121000	.107312	.069265
6				.139000	.130790	.108199
7						
8						
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.077000	.147059	.032908
2				.039000	.074484	.019836
3				.062000	.118411	.031649
4				.077000	.147059	.037467
5				.033000	.063025	.026827
6				.046000	.087853	.039460
7				.058000	.110772	.046044
8				.084000	.160428	.066823
9				.017000	.032468	.044573
10				.011000	.021008	.028767
11				.026000	.049656	.060274
12				.048000	.091673	.134458

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.578000	.456716	.297974	.019235	.807639		.422000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1102.205236	.003328

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
577	.25000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.14600857	.03781712	.16405516	.05765627	.06683700
2	.36227035	.06618856	.33705552	.09213727	.17862141
3	.39395096	.07501993	.29920984	.10364814	.21367474
5	.33936786	.07694264	.32495091	.11326753	.16262142
8	.24821510	.03576648	.15191506	.03897567	.04766530
12	.07379555	.01301668	.06285791	.01832555	.03176682
18	.01116223	.00371792	.00726738	.00451103	.00163711
24	.00142936				

INCHES	6	7	8	9	10
1	.06163400	.09400879	.27381331		
2	.12614029	.19618085	.43419600		
3	.11849138	.18033804	.29658363		
5	.09669759	.13241859	.17377494		
8	.03649199	.03811938	.04226882		
12	.01582921	.01040423	.00245224		
18	.00178133				
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01905615		.07971736	.03037491	.10701891
2	.05917240	.02615938	.11933724	.04232937	.08563732
3	.11434453	.01844877	.13623020	.05735372	.10143890
5	.10743639	.02551993	.08913823	.02349799	.02996994
8	.04470160	.01073254	.02158180	.00613789	.01549110
12	.00382616	.00371792	.00284319	.00451103	.00163711
18	.00142936				
24					

INCHES	6	7	8	9	10
1	.07568625	.10833239	.24703703		
2	.07360463	.12526753	.22715485		
3	.07956456	.09092118	.13081524		
5	.03252488	.02952518	.03738334		
8	.01079616	.01040423	.00245224		
12	.00178133				
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	1.58750000	1.00000000	1.86628435
1	.77299999	1.10022301	1.42218858	.43300000	2.22579024
2	.62399999	.94666273	1.07753335	.18799999	1.86891667
3	.49399999	.81011710	.78667578	.08100000	1.50104149
5	.25699999	.38999588	.31948935	.01500001	.65441779
8	.07900000	.12329756	.09152307	.00100001	.22944820
12	.01200000	.01831674	.01216999		.03007701
18	.00100000	.00142936	.00089702		.00142936
24					

RUN NUMBER 577	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 2541	SLANT MFP 20.062008
INC. ENERGY .250000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 1.700000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.086000	.146009	.055827
2				.022000	.037817	.013792
3				.077000	.164055	.056937
4				.027000	.057656	.020010
5				.044000	.066837	.027914
6				.029000	.061634	.032992
7				.044000	.094009	.066359
8				.138000	.273813	.225493
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.040000	.152788	.076840
2				.043000	.164247	.086911
3				.042000	.133690	.078313
4				.036000	.114591	.077665
5				.046000	.146422	.097701
6				.039000	.124141	.102379
7				.029000	.092310	.069444
8				.046000	.087853	.079295
9				.044000	.084034	.087109
10				.032000	.061115	.074128
11				.020000	.038197	.061945
12				.050000	.023873	.078496

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT. .467000	NO. FLUX REFL. FACT. .901830	DOSE REFL. FACT. .499325	ENERGY REFL. FACT. .016050	ENERGY ABS. FACTOR .839493	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .532000
MEAN ENERGY SCAT.TR.NT.			MEAN ENERGY REFL. NT. 008592			

1702.202618

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
578	.25000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.14674300	.02837103	.17424401	.08334353	.11192851
2	.29472230	.06547833	.29373890	.10962481	.17023841
3	.35536311	.06562846	.30111869	.08326940	.16739084
5	.29801052	.07551169	.31144017	.07369079	.13932533
8	.24360333	.04261195	.18103507	.05989117	.04498841
12	.04965729	.01125563	.04197509	.00659072	.00999901
18	.00933737	.00216540	.00663260		
24					

INCHES	6	7	8	9	10
1	.04053651	.10480349	.29685401		
2	.08736907	.20085002	.45903447		
3	.13528059	.16235168	.27000059		
5	.11395991	.11012207	.13939633		
8	.02399455	.04940634	.02592123		
12	.00800482		.00338042		
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.04144196	.01015824	.06513587	.03934360	.06719053
2	.05778698	.01578169	.11493018	.03987654	.08220905
3	.08910565	.02224602	.16877572	.05402123	.07750806
5	.11899862	.02841322	.09754782	.03052542	.03530859
8	.02780243	.00544448	.03338682	.00342625	.00671188
12	.00526625	.00216540	.00473351		
18					
24					

INCHES	6	7	8	9	10
1	.04090318	.10482593	.29497473		
2	.08216659	.12175749	.21751339		
3	.08288846	.09014715	.11021419		
5	.02190453	.04361179	.01850624		
8	.00800482		.00124285		
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	1.83307737	1.15469441	2.11723616
1	.73999999	1.10391261	1.45436273	.43993858	2.12099488
2	.57299999	.89945259	1.01817814	.16743068	1.70783403
3	.45599999	.75841468	.71443051	.06350819	1.32496501
5	.24399999	.40405379	.31344376	.00923756	.68068960
8	.05800000	.08601952	.05718905		.13086298
12	.00800000	.01216515	.00760611		.01813537
18					
24					

RUN NUMBER 578	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 04	SLANT MFP 23.165488
INC. ENERGY .250000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 1.962980

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.084000	.127084	.048591
2				.016000	.024570	.008961
3				.091000	.150901	.052371
4				.034000	.072178	.025050
5				.055000	.096933	.040484
6				.023000	.035106	.018792
7				.053000	.090763	.064068
8				.143000	.257084	.211717
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.080000	.152788	.069600
2				.061000	.116501	.070523
3				.059000	.112681	.065661
4				.081000	.154698	.089889
5				.036000	.068755	.065626
6				.039000	.074484	.070571
7				.042000	.080214	.078399
8				.043000	.082124	.068604
9				.011000	.021008	.071016
10				.016000	.030558	.098524
11				.017000	.032468	.090122
12				.014000	.026738	.059161

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.499000	.854619	.470034	.017031	.829678	.002000	.499000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1702.205236	.008533

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SEI
578	.25000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.16641698	.02785504	.14416552	.06679451	.14256151
2	.23619736	.06943462	.26227352	.11184375	.14354830
3	.31532596	.04835486	.27800392	.12548196	.22554636
5	.33784275	.10316319	.29843993	.09767798	.14669682
8	.17900855	.05557402	.18302729	.02735168	.02041943
12	.04464894	.01723017	.04597201	.00583103	.00438861
18	.00612906		.00246831		
24					

INCHES	6	7	8	9	10
1	.11687549	.10088899	.38410550		
2	.15410219	.20049482	.50004790		
3	.10245671	.19111614	.27832511		
5	.07907034	.08910552	.10888607		
8	.03848630	.05459476	.02366786		
12	.00730194				
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01509098	.01237367	.07003037	.03989619	.05583870
2	.07502856	.02049705	.11991423	.05496278	.09917146
3	.10486515	.04565855	.16666691	.05555738	.09242712
5	.08098644	.02611522	.11358804	.02345374	.01429979
8	.03004513	.00832967	.02645746	.00583103	.00438861
12	.00445147		.00246831		
18					
24					

INCHES	6	7	8	9	10
1	.08234800	.11656561	.32963170		
2	.07337511	.14336975	.20144632		
3	.06538620	.07342444	.09187319		
5	.03259557	.03494767	.01609379		
8	.00400847				
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.41420712	2.24505380	1.41420712	2.53325613
2	.68599999	1.15452260	1.52863637	.43274738	2.11068985
3	.53199999	.92070074	.99319582	.13293548	1.69754648
5	.42899999	.73545675	.64398474	.03959779	1.30048041
8	.21199999	.34490867	.26425625	.00282841	.58495831
12	.05300000	.07906037	.05150321		.12537270
18	.00500000	.00691979	.00442573		.00859738
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
579	1000	2E	04	28.371834
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.250000	.707110	.000010	1.414207	2.404152

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.078000	.117675	.044993
2				.016000	.019697	.007183
3				.078000	.101941	.035379
4				.035000	.047231	.016392
5				.053000	.100807	.042102
6				.046000	.082644	.044239
7				.050000	.071340	.050357
8				.180000	.271605	.223675
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.070000	.133690	.054969
2				.068000	.129870	.065630
3				.065000	.124141	.057445
4				.071000	.135600	.066797
5				.035000	.066845	.054690
6				.049000	.093583	.079213
7				.051000	.097403	.076750
8				.048000	.091673	.071028
9				.015000	.028648	.078612
10				.010000	.019099	.049949
11				.025000	.047746	.106194
12				.029000	.055386	.125507

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.536000	.812939	.464321	.020890	.791093	.001000	.463000
		MEAN ENERGY SCAT.TR.NT.		MEAN ENERGY REFL. NT.		
1702.205236				.009743		

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
580	.25000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.13736701	.02939254	.17638449	.08059751	.17175651
2	.22796598	.05044131	.30773261	.15003371	.16191897
3	.23733132	.05299744	.29964254	.07191344	.12191552
5	.24073484	.03680892	.17615431	.05547077	.08594092
8	.15329357	.01888383	.10100832	.03499484	.03760098
12	.05752259	.00397474	.02227783		.00114545
18	.00685716	.00216540	.00163557		
24					

INCHES	6	7	8	9	10
1	.11495002	.19603451	.48484302		
2	.15484682	.20489864	.35864855		
3	.07977785	.11839227	.16487615		
5	.04539481	.06436747	.06915614		
8	.01804651	.02458719	.00518704		
12	.00180635	.00219244			
18					
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.02309707	.00826896	.08923684	.06884539	.09234997
2	.07549941	.01183153	.13849625	.03667398	.08354037
3	.09468206	.01156853	.11164043	.03552310	.06124860
5	.08724536	.01282437	.06718153	.02433745	.02127131
8	.03833367	.00397474	.01625874		.00114545
12	.00386441	.00216540	.00163557		
18					
24					

INCHES	6	7	8	9	10
1	.09408380	.15797948	.29786973		
2	.06786638	.09293338	.13115278		
3	.03551194	.04693412	.06158926		
5	.01012873	.01847371	.00518704		
8	.00180635	.00219244			
12					
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	4.64154142	2.92380562	4.22882197
2	.52699999	1.08317852	1.30714857	.25144728	1.86793389
3	.38399999	.65846073	.62932987	.02046664	1.16731316
5	.28799999	.45869803	.38442667		.77402819
8	.14600000	.24664950	.17370832		.39360228
12	.03900000	.06371139	.04245069		.08891939
18	.00500000	.00766538	.00494421		.01065813
24					

RUN NUMBER 580	HISTORIES 1000	ENERGY SET .2E	ANGLE SET 04	SLANT MFP 58.657413
INC. ENERGY .250000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 4.970469

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.067000	.046982	.017964
2				.017000	.010053	.003666
3				.093000	.060327	.020937
4				.037000	.027566	.009567
5				.076000	.058744	.024534
6				.058000	.039315	.021045
7				.067000	.067048	.047328
8				.218000	.165826	.136563
9						
10						

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.086000	.164247	.033363
2				.070000	.133690	.032076
3				.072000	.137510	.030981
4				.074000	.141329	.033873
5				.043000	.082124	.031075
6				.052000	.099312	.036542
7				.061000	.116501	.049482
8				.077000	.147059	.056729
9				.016000	.030558	.039319
10				.017000	.032468	.037365
11				.025000	.047746	.060388
12				.040000	.076394	.096230

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.633000	.475861	.281604	.026161	.738377	.001000	.366000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
1702.205236	010332

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
501	.50000000	1.00000000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.11144028	.02991388	.14823650	.05705890	.06353392
2	.19733747	.04352792	.17816278	.09023017	.12364000
3	.31597013	.04788516	.25289033	.08589688	.13683096
5	.24782054	.05757013	.21494642	.09740580	.14108471
8	.25336678	.07440597	.19990560	.05017218	.07588355
12	.10882368	.02740566	.07428738	.02773939	.01434306
18	.01750348	.00935036	.00440813	.00452729	.00461518
24	.00136403		.00644278	.00473243	.00656029

INCHES	6	7	8	9	10
1	.03385281	.05359580	.04101668	.16729051	.20666132
2	.08859424	.13819251	.11113347	.20920869	.59501375
3	.08824907	.15370181	.09468320	.22456758	.39743094
5	.07419428	.12754800	.11019858	.16601720	.28505305
8	.04016888	.03674185	.03802593	.09207860	.08985227
12	.01586704	.02718093	.01042312	.02387517	.01554976
18	.00107878		.00546009	.00267240	
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00688868	.00183352	.01938035	.02782482	.03362916
2	.03108347	.01031138	.06800257	.02200654	.04335625
3	.08092976	.02292044	.07742753	.04491779	.05449886
5	.08993442	.03271591	.11383857	.03014998	.04931602
8	.05270389	.01443424	.04579879	.01489504	.01028832
12	.01369952	.00376885	.00440813	.00452729	.00461518
18			.00111050		.00656029
24					

INCHES	6	7	8	9	10
1	.02813051	.03773616	.02995798	.10413477	.37201601
2	.03742602	.07741436	.04410190	.14035650	.28519601
3	.04496423	.05672086	.06420155	.12164594	.20613258
5	.03057013	.02448753	.02155087	.06611567	.07626067
8	.00643891	.01545045	.00880175	.01718741	.01243183
12	.00107878		.00344652	.00267240	
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	2.40000000	1.00000000	1.85271628
2	.80299999	1.09453197	2.25622182	.43300000	2.20804100
3	.64399999	.94625499	1.65103536	.18700001	1.98510605
5	.52599999	.85535954	1.26283045	.08100000	1.60283871
8	.31999999	.54993977	.61371839	.01500001	.96560162
12	.12700000	.19943064	.18511093	.00100001	.34649519
18	.02700000	.03821667	.03104010		.04961571
24	.00200000	.00767078	.00558195		.01909953

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
581	1000	2E	2541	20.091766
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.500000	1.000000	.000010	1.000000	2.400000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.059000	.111440	.030182
2				.017000	.029914	.007728
3				.076000	.148236	.036441
4				.027000	.057059	.014027
5				.033000	.063534	.018795
6				.018000	.033853	.012836
7				.037000	.053596	.026798
8				.023000	.041017	.023926
9				.071000	.167291	.125468
10				.108000	.206661	.189440

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.043000	.164247	.085246
2				.034000	.129870	.067238
3				.048000	.152788	.087922
4				.045000	.143239	.088225
5				.034000	.108225	.074394
6				.039000	.124141	.077039
7				.034000	.108225	.092726
8				.042000	.080214	.071792
9				.042000	.080214	.076182
10				.028000	.053476	.065842
11				.030000	.057296	.074741
12				.050000	.023873	.077630

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.469000	.912601	.485641	.016145	.838545	.001000	.530000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
2402.202618	.017212

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
582	.50000000	.86603000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.09376301	.03647954	.12832246	.03037156	.08783350
2	.26637174	.03711234	.22678973	.10353951	.14841197
3	.27329563	.04874566	.25911758	.07787782	.13553950
5	.31247724	.04434983	.28785754	.05597583	.14589774
8	.24739620	.03769315	.16050125	.05631437	.06433828
12	.07288008	.01774447	.07850490	.01690678	.01236692
18	.00857193	.00558987	.02104326	.00141439	.00102136
24			.00106819		
INCHES	6	7	8	9	10
1	.03390351	.07215700	.07435503	.10323804	.27658152
2	.10021209	.14776422	.13797440	.28180709	.60614052
3	.09600288	.13149546	.09899504	.29333956	.42754674
5	.10732568	.09547741	.06159076	.16618784	.27176573
8	.03451824	.03991013	.03837892	.04735529	.06696707
12	.01365450	.02498308	.01238847	.01483746	
18			.00124908		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01150916		.03258850	.02213112	.04616889
2	.04358328	.01275812	.06837704	.03285939	.06642348
3	.07122126	.01381296	.10973416	.02898294	.06691985
5	.07615061	.01902820	.08175137	.02754414	.03436326
8	.04498407	.00654155	.03506445	.01022366	.00898478
12	.00243998	.00454445	.02002953	.00141439	.00102136
18			.00106819		
24					
INCHES	6	7	8	9	10
1	.03326947	.04838517	.04269165	.10038599	.40121258
2	.02994488	.07260950	.04239789	.14381745	.32081916
3	.07185020	.05172482	.03246923	.09452588	.20627655
5	.02492841	.02467086	.02858989	.04365290	.05752118
8	.00870936	.01483569	.00913762	.01334240	
12			.00124908		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	2.77126658	1.15469441	2.05071864
1	.78599999	1.17712640	2.37375431	.43878388	2.49490748
2	.62899999	.99986620	1.70029241	.16627600	2.00823187
3	.49699999	.81102606	1.15510124	.06350819	1.61241379
5	.28799999	.42628368	.46963579	.00808286	.80145578
8	.09100000	.15182359	.13017653		.26426665
12	.01500000	.03069878	.01975573		.03888988
18	.00100000	.00106819	.00064092		.00106819
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
582	1000	2E	00	23.199849
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.500000	.866030	.000010	1.154694	2.771267

SLAB CONFIGURATION: NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.059000	.081202	.021992
2				.022000	.031592	.008161
3				.064000	.111131	.027320
4				.014000	.026303	.006466
5				.040000	.076066	.022503
6				.021000	.029361	.011133
7				.044000	.062490	.031245
8				.036000	.064394	.037563
9				.053000	.089407	.067055
10				.135000	.239528	.219567

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.089000	.169977	.072961
2				.072000	.137510	.081088
3				.055000	.105042	.061647
4				.074000	.141329	.086829
5				.027000	.051566	.052936
6				.034000	.064935	.048446
7				.037000	.070665	.071032
8				.047000	.089763	.089724
9				.011000	.021008	.061513
10				.014000	.026738	.075699
11				.012000	.022918	.072397
12				.016000	.030558	.090904

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.488000	.811475	.453006	.018259	.817407		.512000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
2402.205236	.018708

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
583	.50000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.13197001	.01337201	.11808801	.02743003	.08493849
2	.26399804	.06487258	.27572364	.07337710	.09487723
3	.26382715	.04254115	.24590974	.07325505	.14034567
5	.24208849	.03272765	.19902376	.06753091	.11543463
8	.19351650	.02347137	.13075809	.03954327	.09758135
12	.11272204	.02012381	.04479057	.01418023	.02865527
18	.03079033	.00218568	.02048082	.00487647	.00639578
24			.00439533		

INCHES	6	7	8	9	10
1	.06067952	.10670601	.06228353	.18173652	.34944602
2	.09435360	.15963004	.12561091	.26965070	.54884099
3	.11076679	.13189930	.07381140	.19429189	.39543621
5	.06739548	.10284871	.06043532	.18380770	.20470794
8	.03024164	.04376256	.04523855	.05112442	.04096608
12	.00971295	.01638991	.00740269	.01245306	.00463904
18		.00276698		.00104909	
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00510063	.00322649	.04041770	.01113682	.03568529
2	.05359221	.01083528	.04980917	.02088865	.05364388
3	.07704058	.01964810	.08846444	.03374282	.05252028
5	.08365191	.01572463	.05150337	.02582821	.06625334
8	.04842618	.00670091	.02969114	.00202584	.01830037
12	.02013083	.00218568	.00984027	.00275123	.00639578
18			.00307977		
24					

INCHES	6	7	8	9	10
1	.03642130	.06219267	.03733447	.09756765	.40218294
2	.04800966	.07214700	.03575582	.10761041	.31561511
3	.04672890	.05958149	.03051445	.10100442	.18484388
5	.02441300	.03194591	.02531834	.03974719	.03983419
8	.00466424	.01329392	.00589918	.01081262	.00463904
12		.00276698		.00104909	
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	3.39409710	1.41420712	2.49231962
1	.71299999	1.16401333	2.35278351	.43274738	2.40368220
2	.54899999	.89942845	1.52926184	.13152126	1.80360560
3	.42899999	.73368716	1.02115167	.03959779	1.31559839
5	.24899999	.40704851	.42215131	.00282841	.69903224
8	.09700000	.14445345	.12582742		.27106958
12	.02900000	.04511987	.03171046		.06854516
18	.00100000	.00307977	.00184786		.00439533
24					

RUN NUMBER 883	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0°	SLANT MFP 28.413918
INC. ENERGY .500000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 3.394097

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1				.059000	.093317	.025273
2				.010000	.009455	.002443
3				.061000	.083501	.020527
4				.016000	.019396	.004768
5				.045000	.060061	.017768
6				.026000	.042907	.016269
7				.050000	.075453	.037726
8				.031000	.044041	.025691
9				.083000	.128508	.096381
10				.161000	.247097	.226505

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.076000	.145149	.057169
2				.059000	.112681	.051849
3				.071000	.135600	.070972
4				.084000	.160428	.080353
5				.039000	.074484	.064800
6				.027000	.051566	.041268
7				.044000	.084034	.068367
8				.066000	.126050	.101772
9				.019000	.036287	.083941
10				.011000	.021008	.052189
11				.020000	.038197	.107040
12				.026000	.049656	.124314

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.542000	.803737	.473352	.022394	.776052		.458000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
2402.205236	020659

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
584	.50000000	.34202000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.11716198	.02073355	.11570150	.05582848	.07157303
2	.24196516	.03644099	.22648795	.07710660	.13409325
3	.22286082	.04840974	.23462742	.05333710	.11930648
5	.23164629	.04947722	.19516640	.05948737	.10483691
8	.13492948	.03116063	.10183076	.02565684	.02310002
12	.05503261	.01215978	.03227403	.00116693	.01675640
18	.01386385		.00120366		
24	.00232501				

INCHES	6	7	8	9	10
1	.07516050	.10801250	.08414201	.20270800	.55587499
2	.07228203	.14320268	.11739993	.25492637	.63402282
3	.06483598	.12149578	.12794986	.17563976	.21281327
5	.06180894	.05221133	.05970527	.10350270	.07832370
8	.01967592	.02395464	.00932301	.03431215	
12	.00434725	.00391537	.00132837	.00567847	
18	.00129868		.00144139		
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00817164	.00644644	.05099876	.02529849	.04186828
2	.04323774	.00864224	.09249319	.01913745	.06348108
3	.07451780	.01251340	.10756314	.03131075	.06090767
5	.07488661	.01949534	.06924965	.01816022	.02206978
8	.03673086	.00882979	.03093105		.00541531
12	.00849347		.00120366		
18	.00232501				
24					

INCHES	6	7	8	9	10
1	.03131213	.07616214	.05110226	.13355874	.46157670
2	.04686212	.07245989	.05539957	.11386228	.18135672
3	.03934264	.05116598	.03520995	.06421662	.06694238
5	.01337487	.01894370	.00932301	.03431215	
8	.00278493	.00391537	.00132837	.00567847	
12	.00129868		.00144139		
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	7.01713350	2.92380562	4.27423886
1	.55899999	1.13794287	2.16988804	.25144728	2.18937506
2	.40599999	.71739892	1.02158557	.02046664	1.40174286
3	.30699999	.54369033	.59909203		.99616614
5	.16700000	.27981532	.23942501		.40394346
8	.05700000	.09561416	.07054361		.13265921
12	.01000000	.01243721	.00981520		.01780758
18	.00200000	.00232501	.00155930		.00232501
24					

RUN NUMBER 584	HISTORIES 1000	ENERGY SET 2E	ANGLE SET 0°	SLANT MFP 58.744419
INC. ENERGY .500000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 7.017133

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.067000	.040072	.010853
2				.012000	.007091	.001832
3				.069000	.039572	.009728
4				.030000	.019094	.004694
5				.035000	.024479	.007242
6				.039000	.025706	.009747
7				.047000	.036942	.018471
8				.036000	.028778	.016787
9				.080000	.069330	.051998
10				.249000	.190120	.174277

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.088000	.168067	.034981
2				.070000	.133690	.029824
3				.081000	.154698	.037284
4				.092000	.175707	.041374
5				.038000	.072574	.026632
6				.049000	.093583	.036973
7				.065000	.124141	.053371
8				.089000	.169977	.079709
9				.018000	.034377	.037414
10				.019000	.036287	.050711
11				.016000	.030558	.043386
12				.039000	.074484	.112048

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.664000	.481187	.305629	.031017	.689816		.336000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
2402.205236		.023356

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
585	1.00000000	1.00000000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.09382560	.10181810	.05144249	.02842789	.03539441
2	.24412433	.19760506	.08958050	.06950389	.08763940
3	.28182376	.29736886	.10891058	.06124693	.06717196
5	.28437442	.24880324	.13250999	.04905739	.06227237
8	.22213699	.16834242	.05334118	.06883790	.05408071
12	.11448177	.10997968	.03250065	.01824730	.00520479
18	.03280372	.02630333	.00341583	.00924489	.00745029
24	.00405866				
INCHES	6	7	8	9	10
1	.03373672	.06446939	.03273090	.19375912	.49558583
2	.09654576	.11000020	.06832236	.29124588	.51007093
3	.05013788	.10517011	.07840494	.24078692	.45256089
5	.04347129	.15442206	.04937065	.19972750	.25947681
8	.04684121	.06354245	.04169354	.07999305	.11201150
12	.00790092	.01496832	.01361801	.03140025	.01496858
18		.00161003	.00318356	.00833178	.00108126
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.01225544	.01953055	.03043958	.02196534	.01903016
2	.02102386	.05382567	.03175712	.03616871	.02437620
3	.02848692	.07391464	.05286190	.02194276	.04464204
5	.09088739	.06515996	.02273710	.03825836	.02977278
8	.05079088	.04717309	.02102902	.01365246	.00354956
12	.01656161	.01114761	.00151485	.00924489	
18	.00295753				
24					
INCHES	6	7	8	9	10
1	.02664944	.03416369	.01768320	.10367821	.27829761
2	.01808265	.05847381	.04820626	.12417636	.29979813
3	.01327898	.09231736	.02950207	.10689344	.19107957
5	.02405215	.04186866	.03137564	.05824817	.08678047
8	.00645048	.01098952	.00910024	.02508572	.01496858
12			.00318356	.00466524	.00108126
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	1.00000000	3.79999999	1.00000000	2.07229181
2	.73999999	.98569321	3.12072168	.42199999	2.18663831
3	.58299999	.89388877	2.45639343	.17799999	1.92158283
5	.46399999	.72991970	1.68200240	.07500001	1.55848572
8	.30599999	.50214067	.87682994	.01300001	.92382095
12	.12600000	.20378955	.26302324	.00100001	.36427028
18	.02900000	.04739902	.05084527		.09342469
24	.00100000	.00295753	.00198966		.00405866

RUN NUMBER 888	HISTORIES 1000	ENERGY SET 20	ANGLE SET 2841	SLANT MFP 20.7168330
INC. ENERGY 1.0000000	COS. THETA 1.0000000	CUTOFF EGY .0000101	INC.FLX/NT 1.0000000	INC.DSE/NT 3.8000000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.0620000	.0938256	.0158022
2				.0570000	.1018181	.0158086
3				.0230000	.0514425	.0096116
4				.0140000	.0284279	.0068077
5				.0230000	.0353944	.0111772
6				.0180000	.0337367	.0124293
7				.0270000	.0644694	.0305382
8				.0180000	.0327309	.0189494
9				.0800000	.1937591	.1427699
10				.2480000	.4955858	.4434189

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1			.0000001	.0390000	.1489687	.0820700
2			.0000001	.0370000	.1413292	.0901555
3			.0000001	.0570000	.1814362	.1090714
4			.0000001	.0360000	.1145913	.0815784
5			.0000001	.0480000	.1527884	.1019333
6			.0000001	.0470000	.1496053	.1308001
7			.0000001	.0360000	.1145913	.0992400
8				.0590000	.1126814	.1058520
9				.0660000	.1260504	.1522939
10				.0430000	.0821238	.1078773
11				.0440000	.0840336	.1494857
12				.0580000	.0276929	.1089174

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
	.0000002				.0000002	
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.5700000	1.1311904	.7073129	.0281525	.7184661	.0010000	.4290000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
38.03402618	.0493903

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
506	1.00000000	.86603000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.10115051	.09524751	.05133250	.03572204	.04796151
2	.23534687	.22027098	.08164852	.05663782	.09751297
3	.20899291	.27175230	.10483275	.04375187	.11110507
5	.23715269	.24977155	.12687522	.05008373	.05853023
8	.21108120	.13092497	.07830092	.03997889	.03483620
12	.12020963	.06514126	.03151190	.02632130	.01319694
18	.02251809	.01083684	.00325068	.00392566	
24					

INCHES	6	7	8	9	10
1	.02808853	.06017852	.04805102	.13511302	.54712449
2	.08718342	.15950315	.08045887	.26478397	.67130195
3	.05664233	.10623619	.05641866	.23584140	.40421419
5	.06135354	.09424141	.06584297	.19474767	.28495602
8	.03969279	.03054730	.03274925	.07356646	.09793993
12	.01742051	.00982150	.03431957	.01758656	
18	.01277831	.00561169	.00122506	.00219941	.00103444
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.01204141	.03493357	.01637007	.01435189	.03274003
2	.01166362	.06511222	.03345207	.01582891	.04868779
3	.03713095	.07344265	.04848494	.02168725	.02414538
5	.10107883	.05804932	.03065534	.03121418	.02552581
8	.03669586	.02338935	.01680028	.01116839	.01074037
12	.01669780	.01083684	.00325068	.00392566	
18					
24					

INCHES	6	7	8	9	10
1	.03341858	.05623617	.03658050	.08850372	.38595030
2	.03022002	.03365885	.03682419	.13950378	.29980730
3	.03720196	.05180664	.04589766	.11208229	.21228823
5	.02076426	.02177091	.02164987	.06150975	.07228325
8		.01619696	.00524488	.02731936	.01396705
12	.00985038	.00357304	.00122506	.00219941	.00103444
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	4.38783875	1.15469441	2.26293017
1	.71999999	1.13720848	3.56014324	.42608225	2.38073076
2	.53899999	.87179719	2.37027633	.15703844	1.75682610
3	.44099999	.72190267	1.66598494	.05773472	1.48128975
5	.27099999	.45142970	.73926169	.00692816	.77654606
8	.11000000	.16152250	.23635211		.33552917
12	.03000000	.05259331	.05624003		.06338017
18					
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
586	1000	2D	04	23.921612
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
1.000000	.866030	.000010	1.154694	4.387839

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.054000	.087599	.014754
2				.057000	.082487	.012807
3				.032000	.044455	.008306
4				.019000	.030936	.007408
5				.027000	.041536	.013117
6				.014000	.024326	.008962
7				.032000	.052116	.024687
8				.022000	.041614	.024092
9				.070000	.117012	.086219
10				.263000	.473826	.423950

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.086000	.164247	.085785
2				.089000	.169977	.109657
3				.067000	.127960	.081781
4				.091000	.173797	.109249
5				.046000	.087853	.086214
6				.050000	.095493	.097097
7				.047000	.089763	.093159
8				.050000	.095493	.095055
9				.017000	.032468	.121751
10				.024000	.045836	.174530
11				.007000	.013369	.042326
12				.016000	.030558	.095722

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.590000	.995908	.624302	.029257	.707419		.410000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
3803.405236	.049588

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
587	1.00000000	.70711000	.00001010	2 D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.11550150	.09918951	.04592299	.03501453	.07056200
2	.22037538	.20083292	.09092860	.04390012	.08741502
3	.22632767	.28272430	.09233551	.05399488	.06670968
5	.28171322	.22450535	.09008980	.05449951	.07648288
8	.22135593	.12336889	.05283384	.03974753	.04703385
12	.10075638	.06279722	.02360261	.01494013	.01334215
18	.03852732	.01695369	.00749230		.00615061
24	.00752552				

INCHES	6	7	8	9	10
1	.05228603	.07026903	.04410207	.15111951	.51868299
2	.05631084	.14986572	.07191997	.35537519	.59613893
3	.05864042	.10170457	.07501473	.25300627	.39585860
5	.04516675	.07817783	.08132221	.21457455	.21913103
8	.03239561	.04580291	.02356954	.08567959	.07659969
12	.01622730	.00821756	.01582798	.04138113	.01812740
18		.00125782	.00138407	.00455176	.00147143
24		.00120292			

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.01752067	.02764377	.03613382	.01175096	.02185557
2	.03295847	.08503643	.04163131	.02059759	.02972507
3	.07515636	.06442607	.03725365	.02508181	.04129039
5	.08866495	.06174676	.03989973	.02422464	.03581156
8	.04464245	.03186812	.00861823	.00836629	.00699503
12	.01594166	.01159558	.00749230		
18	.00460345				
24					

INCHES	6	7	8	9	10
1	.02397300	.04838792	.02727248	.20518275	.38399966
2	.02673451	.03434886	.04394971	.14653728	.29606802
3	.02411870	.03101387	.05839771	.14590909	.16991653
5	.02121008	.02718911	.01549787	.06726722	.07015405
8	.00822730	.00259100	.01125137	.02770609	.01533091
12			.00138407	.00455176	.00147143
18		.00120292			
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	5.37398707	1.41420712	2.55498991
1	.69299999	1.22091172	3.80430654	.41719111	2.29025378
2	.52899999	.88062327	2.26939276	.12303603	1.72935266
3	.42999999	.70791936	1.54936286	.03535519	1.40101829
5	.26199999	.45449439	.73653641	.00282841	.75121579
8	.10700000	.16559679	.23459278		.31521988
12	.02500000	.04243680	.04302083		.07778900
18	.00300000	.00580637	.00530553		.00872844
24					

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
587	1000	20	04	29.297892
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
1.000000	.707110	.000010	1.414207	5.373987

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.061000	.081672	.013755
2				.058000	.070138	.010890
3				.032000	.032473	.006067
4				.017000	.024759	.005929
5				.033000	.049895	.015756
6				.024000	.036972	.013621
7				.032000	.049688	.023536
8				.020000	.031185	.018054
9				.080000	.106858	.078738
10				.237000	.366766	.328159

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.087000	.166157	.068994
2				.085000	.162338	.076628
3				.069000	.131780	.062976
4				.079000	.150879	.071387
5				.046000	.087853	.081651
6				.061000	.116501	.108719
7				.050000	.095493	.074258
8				.044000	.084034	.059597
9				.020000	.038197	.121166
10				.019000	.036287	.078199
11				.015000	.028648	.088794
12				.019000	.036287	.090265

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.594000	.850406	.514506	.028116	.718833		.406000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
3803.405236	047333

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
588	1.00000000	.34202000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.06841252	.15781097	.07476499	.04928503	.06995002
2	.12273205	.18454447	.09814450	.06922455	.08027109
3	.29614898	.21100738	.08650444	.05281945	.06674232
5	.24775907	.20176957	.09984525	.04346870	.05297621
8	.12681554	.13687030	.03119134	.01653835	.03726579
12	.04494055	.05373125	.02306286	.00408065	.01014508
18	.03207554	.01707590	.00424774	.00117941	.00169109
24		.00117578			

INCHES	6	7	8	9	10
1	.04260351	.08982752	.09414151	.25933952	.71201401
2	.05886296	.14459722	.07853592	.29335094	.59518591
3	.07439943	.07741206	.07067486	.19430214	.26133445
5	.03272484	.07003613	.04348827	.13285195	.10361096
8	.03438730	.04665885	.02915238	.05229616	.03504069
12	.00375211	.01070480	.00153234	.00564188	.00945902
18			.00115208	.00112839	.00130651
24					

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1	.00504827	.02644950	.02472454	.01862848	.02818976
2	.04220030	.05092247	.03809571	.01514166	.03926467
3	.05859493	.07651081	.04732665	.02320095	.03544526
5	.05299631	.06437997	.01839489	.00861448	.02141038
8	.02296544	.02673520	.01324004	.00408065	.00871290
12	.01473819	.01057533	.00424774		.00169109
18		.00117578			
24					

INCHES	6	7	8	9	10
1	.03170673	.05675168	.03598770	.16575899	.48680069
2	.03951962	.04743996	.04069605	.13981914	.23273239
3	.01735341	.03198984	.03312001	.09556765	.08810891
5	.02569100	.02639979	.01509176	.04384469	.03504069
8	.00122247	.01070480	.00153234	.00449104	.00759937
12			.00115208	.00112839	.00130651
18					
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	11.11046136	2.92380562	4.49334226
2	.51299999	1.11395078	3.38725077	.23390448	1.95935405
3	.38299999	.70337480	1.63666770	.01754281	1.34888834
5	.30599999	.50721844	.90238953		1.02853095
8	.18800000	.31186397	.47782561		.54621672
12	.07000000	.10128424	.11596612		.16705053
18	.01900000	.03483933	.03079438		.05985666
24	.00100000	.00117578	.00070547		.00117578

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
588	1000	20	04	60.571993
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
1.000000	.342020	.000010	2.923806	11.110461

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.037000	.023398	.003941
2				.076000	.053974	.008380
3				.030000	.025571	.004778
4				.023000	.016856	.004037
5				.038000	.023924	.007555
6				.025000	.014571	.005368
7				.038000	.030723	.014553
8				.036000	.032198	.018641
9				.099000	.088699	.065357
10				.291000	.243523	.217889

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.093000	.177616	.035682
2				.066000	.126050	.033167
3				.083000	.158518	.037707
4				.071000	.135600	.030711
5				.064000	.122231	.055706
6				.065000	.124141	.054192
7				.053000	.101222	.039594
8				.070000	.133690	.052488
9				.030000	.057296	.088306
10				.028000	.053476	.076075
11				.030000	.057296	.064585
12				.040000	.076394	.101189

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.693000	.553439	.350499	.035408	.645911	.001000	.306000

MEAN ENERGY SCAT.TR. NT.	MEAN ENERGY REFL. NT.
3803.405236	.051093

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
589	2.00000000	1.00000000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08275458	.09313600	.04091498	.04339359	.03048399
2	.16544014	.16629018	.10192509	.07908719	.05403703
3	.19668529	.22113582	.13742235	.12143191	.06420904
5	.19748717	.21066907	.12787811	.14096189	.08547715
8	.19392101	.19502293	.11383428	.09364978	.07090570
12	.13909127	.12384559	.07231393	.05579662	.04422960
18	.09214358	.07582062	.04016159	.04695511	.03040503
24	.03339346	.04090121	.00871909	.00709510	.00136693
	.00330011	.00113154	.00150667		.00106302
INCHES	6	7	8	9	10
1	.01711742	.05366681	.02882160	.09793832	.30013030
2	.04050577	.07453278	.08137596	.19136988	.44759637
3	.05212880	.12892469	.11467955	.23462532	.43069148
5	.06145789	.13830047	.08976998	.17926549	.37957875
8	.03991285	.09594588	.11171692	.13782126	.28848202
12	.01462516	.09197310	.06951175	.09109080	.13524253
18	.02192115	.03972662	.02674768	.04074713	.05006445
24	.00136864	.00506883	.00302445	.00648090	.00392223

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00132511	.01013636	.01742827	.01424006	.01170633
2	.00575984	.02340976	.03310106	.04383440	.02270508
3	.02528699	.05409635	.03816360	.04293405	.03211645
5	.05937782	.05134527	.03198697	.03640652	.01922102
8	.04735323	.05518735	.02529626	.01483054	.02726183
12	.02121350	.03244123	.01806458	.02313180	.01258344
18	.01414124	.00676283	.00442283	.00339272	.00136693
24	.00330011	.00113154	.00150667		.00106302
INCHES	6	7	8	9	10
1	.01437990	.01210643	.02523603	.05709229	.20119522
2	.02021681	.03480976	.03621107	.09794232	.24983423
3	.01005126	.05523493	.02685785	.08154694	.26306636
5	.02640557	.06179839	.06170905	.07974534	.18978350
8	.00484495	.04486976	.03838615	.05266510	.08707066
12	.00498992	.02188818	.01467885	.01838699	.04051456
18	.00136864	.00506883	.00302445	.00372327	.00212906
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.29230769	1.00000000	1.73366495
1	.89099999	1.06684601	4.29974458	.70200000	2.10416038
2	.79299999	1.05982432	3.96133152	.49200000	2.19393424
3	.70299999	.97435477	3.37101209	.34500001	1.95584598
5	.53399999	.78677944	2.45802635	.16900000	1.51021263
8	.31799999	.45576584	1.23453819	.05800001	.89572036
12	.14600000	.22189305	.52134090	.01400000	.47869296
18	.03100000	.04640081	.07703456	.00100001	.11234084
24	.00500000	.00700134	.00566973		.00700134

RUN NUMBER 889	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 2541	SLANT MFP 8.513930
INC. ENERGY 2.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 4.100000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.003191	.000498	.049000	.082755	.012918
2	.001000	.001120	.000161	.050000	.093136	.013402
3	.001000	.001598	.000316	.023000	.040915	.008083
4				.023000	.043394	.013759
5	.001000	.001065	.000467	.015000	.030484	.013383
6				.009000	.017117	.009185
7				.034000	.053667	.036650
8				.019000	.028822	.023901
9				.048000	.097938	.093161
10				.150000	.300130	.300130

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.032000	.122231	.073476
2	.001000	.003820	.001785	.041000	.156608	.105440
3	.001000	.003183	.000513	.045000	.143239	.103490
4				.043000	.136873	.100993
5				.028000	.089127	.082059
6	.001000	.003183	.000669	.035000	.111408	.094136
7				.031000	.098676	.083207
8	.001000	.001910	.000603	.053000	.101222	.111286
9	.001000	.001910	.000550	.028000	.053476	.056307
10				.020000	.038197	.060599
11				.023000	.043927	.079399
12				.041000	.019576	.081619

(S+U) NO. TRAN. FACT. .005000	(S+U) DOSE TRAN. FACT. .001442	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .005000	SCAT. NO. FLX TRAN. FACT. .006973	SCAT. DOSE TRAN. FACT. .001442	SCAT. EGY. TRAN. FACT. 000016
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NUMBER REFL. FACT. .420000	NO. FLUX REFL. FACT. .788358	DOSE REFL. FACT. .524573	ENERGY REFL. FACT. 018350	ENERGY ABS. FACTOR .816341	NUMBER ABS. FACTOR .002000	NO. CUTOFF FACTOR .573000
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4104.102618	MEAN ENERGY SCAT. TR. NT. 006286	MEAN ENERGY REFL. NT. 087379
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
590	2.00000000	.86603000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08861649	.07441253	.06094950	.05404650	.03569005
2	.18719113	.15453012	.10646982	.09916195	.06162995
3	.29364854	.17205004	.09146256	.10935185	.06889940
5	.24376155	.21234792	.13103488	.11260138	.07481518
8	.27401460	.20060801	.10253033	.10289526	.05985954
12	.16575944	.15167866	.08324262	.05941795	.04476259
18	.09151482	.10145014	.03133783	.03293354	.01958098
24	.01494638	.01657281	.01220512	.00651939	
	.00242797		.00269134	.00104288	.00159181

INCHES	6	7	8	9	10
1	.02222852	.04327001	.06782853	.11568200	.29241699
2	.04428367	.09804279	.08983116	.22761438	.50995378
3	.06450629	.11239586	.10049034	.28284844	.50746129
5	.06953219	.12859713	.11452186	.18977668	.42896013
8	.03271336	.09978621	.09085139	.21336442	.30345614
12	.02678566	.10446594	.04214466	.08023809	.13216734
18	.00766038	.03455814	.01660675	.01869858	.03212116
24	.00587984	.00329768	.00485332	.00109358	.00740683
					.00156269

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1	.00296422	.00363687	.00488224	.01332595	.00448909
2	.00797996	.01928646	.01308774	.03130845	.01188838
3	.03288724	.05305605	.02719911	.03914503	.02618605
5	.05725318	.06561658	.02754112	.03603688	.02323236
8	.04107695	.06162865	.02339679	.02539438	.01241177
12	.03531334	.03951670	.01724212	.02147661	.00750848
18	.00527224	.01208115	.00349580	.00227724	
24	.00242797		.00269134	.00104288	.00159181

INCHES	6	7	8	9	10
1	.01207217	.01885712	.02196063	.06865009	.26043392
2	.02443310	.03873999	.02186344	.12073806	.30475275
3	.02879317	.03769096	.04665317	.09149569	.30313212
5	.01133664	.05399387	.04879779	.11389138	.22170178
8	.01149618	.04567946	.03568193	.04422540	.09445609
12	.00266071	.01981060	.01164328	.01525750	.02911031
18	.00449199	.00228813	.00345286	.00109358	.00740683
24					.00156269

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	4.95630370	1.15469441	1.95815750
1	.88899999	1.17798939	4.84742029	.76671709	2.34542585
2	.77099999	1.10329857	4.27286519	.50922023	2.31233485
3	.68399999	1.02340937	3.58322406	.33717077	2.04311968
5	.50799999	.80835716	2.53758170	.14895558	1.62903486
8	.29699999	.43817129	1.16703744	.04272370	.93338664
12	.13300000	.20762251	.42022101	.00808286	.39454518
18	.02500000	.04185984	.07870671		.07277496
24	.00600000	.00931670	.01413366		.00931670

RUN NUMBER 590	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 0°	SLANT MFP 9.830988
INC. ENERGY 2.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 4.734247

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.002137	.000334	.048000	.076744	.011980
2				.046000	.064443	.009274
3	.001000	.001700	.000336	.036000	.052784	.010428
4	.001000	.000885	.000280	.024000	.046806	.014841
5	.001000	.001700	.000746	.014000	.030909	.013570
6				.009000	.019251	.010330
7				.028000	.037473	.025591
8				.028000	.058742	.048712
9				.056000	.100184	.095297
10	.001000	.001700	.001700	.140000	.253242	.253242

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000536	.067000	.127960	.065921
2				.061000	.116501	.076618
3	.001000	.001910	.000319	.054000	.103132	.067747
4	.001000	.001910	.000319	.057000	.108862	.074871
5				.029000	.055386	.070754
6	.001000	.001910	.001425	.043000	.082124	.094339
7	.001000	.001910	.003246	.031000	.059205	.070928
8	.001000	.001910	.000641	.036000	.068755	.064389
9				.012000	.022918	.095328
10				.016000	.030558	.105875
11				.009000	.017189	.057483
12				.014000	.026738	.097810

(S+U) NO. TRAN.FACT. .006000	(S+U) DOSE TRAN. FACT. .003396	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .006000	SCAT.NO.FLX TRAN. FACT. .008121	SCAT. DOSE TRAN. FACT. .003396	SCAT. EGY. TRAN. FACT. .000107
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NUMBER REFL. FACT. .429000	NO. FLUX REFL. FACT. .740578	DOSE REFL. FACT. .493264	ENERGY REFL. FACT. .018269	ENERGY ABS. FACTOR .816232	NUMBER ABS. FACTOR .001000	NO. CUTOFF FACTOR .564000
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MEAN ENERGY SCAT.TR.NT. .035810	MEAN ENERGY REFL. NT. .085169
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4104.105236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
591	2.00000000	.70711000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.08178449	.10193800	.05549751	.05545500	.04880701
2	.14503087	.16539579	.13988570	.10501560	.08268262
3	.23841610	.25121160	.11909789	.10406727	.07659745
5	.24197009	.19876913	.13477445	.10753305	.04859288
8	.29881736	.17431545	.12361939	.09973205	.05653253
12	.14478054	.13330054	.07217801	.04970854	.04471496
18	.06518169	.05750427	.02179170	.01915359	.02431742
24	.00777106	.00132356	.00318692	.00256561	
	.00154022				
INCHES	6	7	8	9	10
1	.03227206	.07017301	.06607854	.08430401	.31352301
2	.05533967	.13513244	.10924080	.21081514	.55944374
3	.06246826	.14039063	.11314885	.24306077	.52232383
5	.09646680	.11469569	.10308146	.26376394	.43583909
8	.01835108	.07634556	.07741271	.14093321	.21598546
12	.02636802	.09219699	.03635935	.08997017	.08285830
18	.00629228	.03001368	.00813171	.02433731	.02476914
24		.00153355	.00283490		.00109664
					.00109664

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00748343	.01757955	.02770265	.02044288
2	.02038627	.02707373	.05299796	.03354171	.01929934
3	.03752233	.04441163	.04594847	.02698315	.01917675
5	.06967131	.06335532	.04389105	.04464154	.02525624
8	.05369546	.04209181	.02745514	.02208969	.02154362
12	.02449999	.02225664	.01707287	.00940350	.00383529
18	.00565104	.00132356	.00214374	.00256561	
24	.00154022				
INCHES	6	7	8	9	10
1	.01425399	.03388100	.03869424	.06260400	.28718698
2	.02372411	.03750254	.04307440	.10598124	.33127500
3	.03965857	.03591698	.04189750	.11955288	.31003252
5	.00708241	.05322522	.04631644	.09028719	.17365351
8	.01088116	.04317456	.02027691	.05491723	.07239723
12	.00456856	.01502613	.00106218	.01188440	.02476914
18			.00148555		.00109664
24					.00109664

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.07021212	1.41420712	2.28594271
1	.85499999	1.36683823	5.48360051	.85700951	2.56499191
2	.72399999	1.21387032	4.49956211	.51901401	2.38979665
3	.61799999	1.03505478	3.60912828	.31395398	2.05944056
5	.45299999	.73193101	2.11710789	.11455077	1.39659556
8	.25399999	.39397855	.99290169	.02545572	.79789117
12	.09600000	.13720713	.28299810	.00282841	.28432121
18	.01200000	.01426613	.01965447		.02031224
24	.00200000	.00263686	.00558932		.00263686

RUN NUMBER 591	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 84	SLANT MFP 12.040461
INC. ENERGY 2.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 5.798249

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.001388	.000217	.047000	.057831	.009027
2				.049000	.072081	.010373
3				.032000	.039243	.007753
4				.028000	.039213	.012433
5				.020000	.034512	.015152
6				.018000	.022820	.012245
7				.037000	.049620	.033887
8				.027000	.046725	.038747
9				.047000	.059612	.056704
10	.001000	.000873	.000873	.170000	.221695	.221695

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.068000	.129870	.056796
2				.065000	.124141	.071793
3	.001000	.001910	.001666	.059000	.112681	.066920
4				.063000	.120321	.070452
5				.031000	.059205	.053019
6				.050000	.095493	.096045
7				.042000	.080214	.070175
8	.001000	.001910	.000414	.052000	.099312	.086407
9				.012000	.022918	.062619
10				.012000	.022918	.079491
11				.009000	.017189	.044597
12				.012000	.022918	.040038

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.002000	.001089		.002000	.002260	.001089	.000090

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.475000	.643352	.418016	.020911	.789983	.001000	.522000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
4104.105236	089749
	088047

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
592	2.00000000	.34202000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.04341400	.09824249	.05319052	.08942397	.04708252
2	.11803769	.12956458	.06697151	.14151554	.08012849
3	.14301876	.14008244	.14053932	.10759218	.09511434
5	.16542492	.19485071	.14287121	.11560832	.06995935
8	.22997447	.19632238	.09381411	.05161851	.03225198
12	.11113162	.08151077	.04193294	.04183272	.01878515
18	.02473986	.02424043	.00819120	.01087564	.01180114
24	.01326620	.00608503		.00110492	

INCHES	6	7	8	9	10
1	.04399404	.11376798	.10025202	.22117101	.60739399
2	.04884710	.10078520	.12905606	.25678516	.69821358
3	.04862459	.11674174	.11964368	.19125929	.44162685
5	.03171918	.12350959	.10344016	.15742711	.30639994
8	.04442083	.06576020	.03693976	.07679962	.14689693
12	.01092352	.05973963	.02611082	.05835935	.03993569
18	.00177375	.01415854	.00766884	.01421873	.01006702
24		.00142895	.00230279	.00514458	.00119174

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1		.00467093	.00467332	.02310239	.03066962
2	.00346089	.02946932	.04893801	.03843131	.03096186
3	.01769572	.04949035	.04001343	.05731498	.02938299
5	.07051953	.06279860	.06479251	.02538855	.01772952
8	.04218121	.03075408	.01977551	.01865963	.01432761
12	.01828083	.01060488	.00569451	.00118012	.00812790
18	.00227302			.00110492	
24					

INCHES	6	7	8	9	10
1	.01877774	.02133675	.05897288	.09612515	.41093101
2	.03155860	.02590941	.06206985	.09632500	.32063048
3	.02203430	.04413710	.05654494	.10363753	.25214649
5	.01876375	.04071956	.02921770	.04574582	.13143769
8	.00936689	.01838013	.01667961	.03383904	.03480314
12	.00177375	.01039084	.00500444	.00927853	.00901088
18			.00230279	.00411639	.00119174
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	12.54987337	2.92380562	4.24579321
1	.67099999	1.70428699	6.93786206	1.03502720	2.80493209
2	.51099999	1.05323043	3.81354615	.36547572	1.90971889
3	.43199999	.80104528	2.58337397	.12864747	1.53985793
5	.30799999	.52173225	1.24885656	.01461903	.98941781
8	.15000000	.23876686	.51635036		.49026221
12	.05400000	.07934669	.16207809		.12773516
18	.00700000	.01098885	.03178549		.03052421
24					

RUN NUMBER 592	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 04	SLANT MFP 24.893077
INC. ENERGY 2.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 11.987603

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.031000	.014848	.002318
2				.046000	.033601	.004835
3				.032000	.018192	.003594
4				.044000	.030585	.009698
5				.024000	.016103	.007070
6				.021000	.015047	.008074
7				.051000	.038911	.026573
8				.038000	.034288	.028434
9				.084000	.075645	.071955
10				.255000	.207741	.207741

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1				.089000	.169977	.037268
2				.064000	.122231	.037295
3				.068000	.129870	.039572
4				.079000	.150879	.042471
5				.037000	.070665	.035534
6				.055000	.105042	.049835
7				.052000	.099312	.049864
8				.074000	.141329	.072669
9				.017000	.032468	.052396
10				.022000	.042017	.069340
11				.031000	.059205	.099392
12				.038000	.072574	.121566

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
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NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.626000	.484961	.370291	.032446	.675533	.001000	.373000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
4104.105236	103660

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
593	3.00000000	1.00000000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.07186525	.05380714	.08000858	.02785899	.03735231
1	.13372780	.14303495	.07632349	.07087441	.09939127
2	.18649043	.13010217	.07562736	.06626868	.10920080
3	.16441491	.15511197	.09427747	.10551370	.10336432
5	.22624927	.15455932	.14493077	.09027848	.11095967
8	.19097640	.13214211	.10155520	.06533366	.09355313
12	.17946480	.11199814	.05454183	.03208777	.05037355
18	.04290726	.02420014	.01063370	.02518433	.01438470
24	.00915992	.00253607	.00126565		.00257566
INCHES	6	7	8	9	10
	.07348219	.04618531	.04539121	.13612680	.16543851
1	.13993411	.10089891	.06746238	.15451731	.24306083
2	.14448585	.10791973	.10138789	.18826441	.27729432
3	.14388973	.11607934	.11185951	.17371709	.27328548
5	.16826608	.11908869	.08410985	.18016804	.23771241
8	.12604037	.07110495	.05609809	.11803836	.14148854
12	.07671388	.04508422	.04680059	.07114459	.06272386
18	.02169613	.02029938	.00443467	.01881195	.03438930
24	.00733083	.00595278	.00414592	.00449858	.00995699

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
		.00651097	.00849146	.00688081	.01847159
1	.00797613	.00890315	.00841126	.01007021	.02977338
2	.00918545	.00965551	.01098510	.02635311	.04474216
3	.05130274	.03110770	.04635151	.03162512	.02442180
5	.04025643	.04141830	.02810609	.03113048	.03562043
8	.04030778	.02761542	.02957031	.01792411	.02329157
12	.01441488	.00988192	.00514124	.00231036	.00781945
18	.00915992	.00253607	.00126565		.00257566
24					
INCHES	6	7	8	9	10
	.05374010	.04244670	.02808592	.02358669	.09234701
1	.04688805	.04401634	.03062572	.07311776	.17714882
2	.04729874	.03874919	.04834015	.09033161	.19292246
3	.06212805	.05876620	.03578730	.08485224	.18823056
5	.06188698	.05055183	.03030391	.08898567	.11679679
8	.03172546	.02360728	.02095626	.05710102	.05259589
12	.00858397	.01342572	.00339669	.01533461	.03198654
18	.00733083	.00595278	.00414592	.00449858	.00995699
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.78461538	1.00000000	1.70310265
1	.93100000	1.05356126	4.74415222	.77299999	2.00222546
2	.83299999	1.03393082	4.54751406	.59700000	1.98404165
3	.76499999	.98056348	4.16010965	.46200001	1.90351353
5	.64899999	.88957323	3.32551849	.27500000	1.79132258
8	.44899999	.65205691	2.24112486	.12700000	1.22333081
12	.25399999	.36969510	1.13356381	.04500000	.77593323
18	.08500000	.12129537	.39085006	.00900000	.22594155
24	.03100000	.04942240	.15202138	.00200000	.04942240

RUN NUMBER 893	HISTORIES 1000	ENERGY SET 28	ANGLE SET 2541	SLANT MFP 6.185482
INC. ENERGY 3.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 4.600000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.006000	.009208	.001281	.030000	.071865	.009999
2	.002000	.002509	.000322	.035000	.053807	.006901
3	.001000	.001262	.000222	.030000	.080009	.014088
4				.020000	.027859	.007873
5	.002000	.002662	.001157	.023000	.037352	.016240
6	.004000	.007225	.004869	.038000	.073482	.049521
7	.003000	.005627	.004771	.023000	.046185	.039157
8	.001000	.005915	.005272	.019000	.045391	.040457
9	.003000	.004537	.004143	.085000	.136127	.124290
10	.007000	.010141	.009700	.064000	.165438	.158245

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.002000	.007639	.007217	.043000	.164247	.093157
2	.004000	.015279	.006746	.019000	.072574	.039669
3	.002000	.006366	.005424	.030000	.095493	.063470
4	.002000	.006366	.001051	.033000	.105042	.074429
5	.003000	.009549	.005109	.030000	.095493	.077594
6	.003000	.009549	.012121	.026000	.082760	.077154
7	.002000	.006366	.004989	.021000	.066845	.062575
8	.002000	.003820	.003383	.038000	.072574	.088517
9	.003000	.005730	.005848	.034000	.064935	.082341
10	.001000	.001910	.003800	.027000	.051566	.063865
11	.004000	.007639	.013315	.023000	.043927	.065062
12	.001000	.000477	.002517	.043000	.020531	.078034

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.031000	.033737	.002000	.029000	.049086	.031737	.001211

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.367000	.737516	.466772	.015670	.829178	.001000	.601000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
4604.402618	125301
	128096

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
594	3.00000000	.86603000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05927703	.04763053	.04395601	.05338801	.02516403
2	.10412755	.10027613	.06947954	.05392999	.08380045
3	.17997210	.17061481	.11398645	.07253704	.09371956
5	.18332134	.21166007	.12898717	.11566284	.08279996
8	.25497786	.17581665	.10755333	.10808091	.11359376
12	.21328408	.17053442	.08438716	.07572742	.10094382
18	.09879784	.11266002	.04398908	.03723830	.04594448
24	.02502157	.02753017	.02096238	.01001101	.00380558
		.00468226		.00110984	.00128012

INCHES	6	7	8	9	10
1	.10112199	.05813252	.05769554	.15294299	.21696800
2	.16752383	.08477965	.08753645	.19656954	.30032182
3	.16490642	.10875470	.13783584	.17994399	.36503408
5	.19263897	.13454289	.14393679	.17240613	.32591505
8	.17253407	.11989829	.09510536	.13617176	.25775104
12	.09741895	.07586459	.07109411	.13733476	.13736282
18	.08515759	.03719378	.02515767	.06935456	.04453113
24	.02207292	.02035826	.01775970	.01147841	.00873738
		.00186512		.00244221	.00341324

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00105122	.00429290		.01953028
2	.00575610	.01082128	.00781457	.01191355	.01463537
3	.01284577	.02793233	.01907320	.01721348	.02721717
5	.04778383	.03458028	.03237666	.03743356	.04908850
8	.05433446	.04398388	.02894777	.02355893	.03815501
12	.03237209	.04785525	.01638891	.01088524	.01849845
18	.00990929	.00458348	.00701966		
24		.00468226		.00110984	.00128012

INCHES	6	7	8	9	10
1	.03335187	.02241966	.02814429	.03234045	.15402598
2	.06205752	.04410316	.04078771	.04924439	.23667235
3	.06474121	.07645734	.05342250	.07626349	.24278336
5	.05953642	.05344728	.05058620	.07087871	.20260544
8	.03810967	.04363094	.04777716	.08841291	.11204532
12	.05650738	.02982931	.00993697	.04221027	.03895262
18	.01473251	.00413454	.01127460	.01044221	.00768566
24		.00186512		.00244221	.00341324

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	5.52476864	1.15469441	1.91397040
1	.89500000	1.15309460	5.31850422	.85793795	2.10628289
2	.79999999	1.12119732	4.97291940	.63739132	2.22469629
3	.73699999	1.09021987	4.57290792	.47227002	2.16414124
5	.60699999	.89927783	3.33507214	.26096093	1.80244398
8	.40099999	.62518795	2.10346217	.10623188	1.27018401
12	.18900000	.33576791	.96945596	.03233144	.63235591
18	.04500000	.07440073	.23026146	.00461877	.17235615
24	.01100000	.01479279	.04142415		.01479279

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
594	1000	20	00	7.142343
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
3.000000	.866030	.000010	1.154694	5.311594

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1				.034000	.051336	.007142
2	.003000	.003653	.000469	.029000	.041249	.005291
3				.024000	.038067	.006703
4	.001000	.001069	.000302	.026000	.046236	.013067
5	.001000	.001069	.000465	.015000	.021793	.009475
6				.047000	.087575	.059018
7	.001000	.001700	.001441	.028000	.050344	.042683
8				.024000	.049966	.044535
9	.002000	.001953	.001783	.081000	.132453	.120936
10	.003000	.002838	.002715	.087000	.187901	.179731

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.007639	.004991	.072000	.137510	.074223
2	.002000	.003820	.001464	.056000	.106952	.075624
3	.003000	.005730	.004078	.041000	.078304	.056425
4				.052000	.099312	.059988
5				.029000	.055386	.068024
6				.033000	.063025	.073669
7	.001000	.001910	.000416	.030000	.057296	.066133
8	.001000	.001910	.002752	.027000	.051566	.056148
9				.009000	.017189	.075289
10				.014000	.026738	.096919
11				.014000	.026738	.102194
12				.018000	.034377	.128481

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.011000	.007174		.011000	.012281	.007174	.000490

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.395000	.706920	.488581	.018022	.814880		.594000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
133557	136873

4604.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
585	3.00000000	.70711000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.07832250	.05475200	.03883952	.04305750	.06405053
2	.15044344	.11082673	.06105892	.05928878	.09631125
3	.17615029	.16900055	.09420246	.11680692	.08838673
5	.19156964	.18604344	.11722152	.10985152	.09496442
8	.22525171	.19230569	.11090556	.07288264	.10882184
12	.16425330	.15618793	.04645805	.05901274	.11641380
18	.10028743	.11690276	.05083888	.02967298	.03705749
24	.04101373	.00929533	.00702450	.00382905	.00495265
	.00103885	.00246644	.00139228		.00244663
INCHES	6	7	8	9	10
1	.11336300	.06301552	.05822652	.15088304	.20015150
2	.15758426	.08955038	.06922303	.18615490	.33670117
3	.15954197	.16406904	.12893236	.21146727	.39358528
5	.21189966	.16349830	.10660099	.19387050	.31323263
8	.19279427	.12515141	.08371903	.18822647	.28488000
12	.08636365	.06639454	.05941847	.09235960	.11310816
18	.06964129	.03712070	.03517642	.03231265	.04118797
24	.02359347	.00701967	.00797474	.01044419	.01544294
	.00402919	.00125133			.00222411

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.01246205	.00355000	.00475036	.02142907
2	.00995755	.02077104	.00879926	.01248340	.02087089
3	.02389581	.02495192	.02683695	.02427663	.02015902
5	.03852283	.04319233	.03748710	.02300213	.03848635
8	.05125714	.04293804	.01943160	.01339380	.03042557
12	.03752937	.03188864	.02091189	.01459209	.01580770
18	.01065143	.00696965	.00447131	.00161077	.00264251
24	.00103885	.00246644	.00139228		.00244663
INCHES	6	7	8	9	10
1	.03960896	.04133014	.02988356	.03758128	.17763702
2	.05917497	.08095990	.04980746	.06382656	.26039629
3	.07311667	.07564637	.04643615	.08429885	.25025959
5	.09267060	.04884302	.04650813	.10309417	.19596842
8	.04279363	.04159499	.03469181	.04972691	.10201298
12	.03023147	.01544949	.02358684	.02286933	.03887185
18	.00499099	.00701967	.00527326	.00851759	.01262021
24	.00402919	.00125133			.00222411

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	6.76643716	1.41420712	2.26725767
1	.87500000	1.35110639	6.17499900	.98287395	2.30001681
2	.77699999	1.26869515	5.55784161	.68164783	2.38379070
3	.69499999	1.12363737	4.66498507	.47375939	2.16251201
5	.54399999	.89546243	3.32183003	.22768736	1.81262597
8	.33499999	.50463966	1.64566146	.07636717	1.03633741
12	.17100000	.26870918	.72745140	.01697049	.56716906
18	.04200000	.06618160	.19160899	.00141422	.13200449
24	.01200000	.01484883	.03472963		.01484883

RUN NUMBER 595	HISTORIES 1000	ENERGY SET 28	ANGLE SET 04	SLANT MFP 8.747554
INC. ENERGY 3.000000	COS. THETA .707110	CUTOFF EGY .000010	INC.FLX/NT 1.414207	INC.DSE/NT 6.505353

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.001000	.000722	.000100	.042000	.055383	.007705
2	.002000	.001595	.000205	.033000	.038716	.004966
3	.001000	.000873	.000154	.025000	.027464	.004836
4				.028000	.030446	.008604
5	.002000	.001745	.000759	.031000	.045291	.019692
6	.003000	.002983	.002010	.052000	.080160	.054021
7	.001000	.000873	.000740	.029000	.044559	.037778
8				.030000	.041173	.036697
9				.080000	.106691	.097413
10	.002000	.001595	.001526	.092000	.141529	.135376

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.004000	.007639	.002618	.061000	.116501	.051891
2				.050000	.095493	.053436
3	.003000	.005730	.002862	.060000	.114591	.061272
4	.004000	.007639	.003224	.070000	.133690	.066638
5				.033000	.063025	.060583
6	.001000	.001910	.001786	.051000	.097403	.089171
7				.045000	.085943	.080829
8				.025000	.047746	.041961
9				.007000	.013369	.037318
10				.015000	.028648	.083215
11				.011000	.021008	.074150
12				.014000	.026738	.077015

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.012000	.005493		.012000	.010385	.005493	.000330

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.442000	.611411	.407089	.019152	.805172		.546000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
082437	129993

4604.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
598	3.00000000	.34202000	.00001010	28

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06827000	.05822802	.08553703	.05985101	.04717800
2	.12497528	.13524213	.09017464	.09732872	.11916013
3	.12502891	.17375384	.10868076	.13972825	.12884953
5	.18619113	.19713884	.11424986	.12905266	.12321833
8	.21647950	.17341614	.09203964	.07212913	.07863011
12	.13923458	.08262629	.04600712	.03307457	.05753658
18	.05814224	.04035422	.01421892	.02116781	.00925623
24	.01218764	.00895222		.00240027	.00209483
	.00285062				.00327049

INCHES	6	7	8	9	10
1	.13943551	.12357001	.07618200	.25825151	.30556599
2	.22145012	.18881611	.12581764	.28953874	.54561552
3	.24933796	.15650829	.12027996	.28489923	.42632795
5	.20455337	.16424868	.14654686	.23575575	.32449973
8	.16813396	.07293485	.08449133	.13652685	.17147107
12	.05491276	.02367078	.04922955	.03803576	.04879995
18	.02856406	.01996895	.01407758	.01296050	.01287506
24	.00382837	.00517683	.00706699	.01395863	.00249258
	.00121496	.00143870	.00446764		

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00683688	.01197922	.01201016	.03373987
2	.01901336	.02021923	.02906098	.03507933	.04963281
3	.02938632	.02403137	.03717332	.03620037	.04598465
5	.06256416	.06573487	.05063798	.02651607	.04125487
8	.04942345	.02861838	.02997379	.01786903	.02460554
12	.02988553	.01507889	.01003696	.00914270	.00352036
18	.00694676	.00387209		.00240027	.00209483
24	.00285062				.00327049

INCHES	6	7	8	9	10
1	.06156313	.09383594	.03528959	.09881073	.37013870
2	.09711824	.06777280	.05350422	.14172505	.33553646
3	.07650098	.06977212	.07182108	.12992672	.26704950
5	.07049769	.05166134	.04830995	.08573924	.14760248
8	.03790609	.01122112	.02972551	.02912301	.04879995
12	.00796596	.01196895	.00774751	.01186324	.01287506
18	.00382837	.00517683	.00218344	.00987359	.00249258
24	.00121496	.00143870	.00446764		

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
1	1.00000000	2.92380562	13.98928537	2.92380562	4.10086862
2	.78099999	2.10131668	9.56683458	1.37711246	3.31523149
3	.63999999	1.49482354	6.28428016	.64616102	2.55955571
5	.52999999	1.09192222	4.29332899	.30407576	2.12953102
8	.38799999	.71776620	2.25254447	.06724751	1.33350012
12	.18500000	.31311348	.80960027	.00584760	.57897554
18	.08000000	.12008517	.27347567		.23158558
24	.02300000	.03886876	.11055039		.05815836
	.00800000	.01324241	.03628228		.01324241

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
598	1000	28	84	18.085150

INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
3.000000	.342020	.000010	2.923806	13.449506

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.001021	.000142	.039000	.023350	.003249
2				.035000	.019915	.002554
3				.039000	.029255	.005151
4				.032000	.020470	.005785
5	.002000	.001093	.000475	.031000	.016136	.007016
6	.001000	.000422	.000284	.074000	.047690	.032139
7	.001000	.000422	.000358	.057000	.042263	.035832
8	.002000	.001342	.001196	.040000	.026056	.023224
9				.094000	.088327	.080647
10				.131000	.104510	.099966

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.001000	.001910	.000093	.095000	.181436	.036734
2				.054000	.103132	.026709
3	.002000	.003820	.000894	.063000	.120321	.034095
4	.001000	.001910	.000683	.074000	.141329	.036690
5	.002000	.003820	.000736	.051000	.097403	.045957
6	.001000	.001910	.001143	.038000	.072574	.035604
7	.001000	.001910	.001143	.047000	.089763	.037585
8				.067000	.127960	.066794
9				.015000	.028648	.043207
10				.021000	.040107	.058191
11				.018000	.034377	.044970
12				.029000	.055386	.097945

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.008000	.002456		.008000	.004300	.002456	.000217

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.572000	.417972	.295562	.026198	.735843		.420000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
.081206	.137404

4604.405236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
897	5.00000000	1.00000000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03709692	.05018319	.02314629	.01913710	.02750839
2	.11342755	.07624909	.04141702	.05529008	.05597569
3	.12025395	.11844779	.03134746	.04507974	.06668520
5	.13504791	.14195218	.07389571	.07104621	.07003215
8	.24517225	.17588597	.10010237	.10713658	.08991195
12	.19611925	.17135640	.08186330	.06020010	.08591799
18	.11061296	.07448366	.02765016	.03662401	.05149184
24	.09238742	.04287708	.02034082	.03390584	.02246789
	.01506265	.00539425	.00283084	.00625876	.00100510

INCHES	6	7	8	9	10
1	.04242518	.04606158	.08671626	.09516149	.13539768
2	.10472605	.10302604	.12021607	.12919472	.24510753
3	.15340175	.17424558	.19306064	.19494771	.26228371
5	.17361249	.23567146	.21443034	.18595176	.27654701
8	.16105418	.17409876	.22931722	.13222010	.30302640
12	.11526851	.13925324	.15733061	.10044811	.24590253
18	.04972533	.14500848	.11954836	.04106879	.14978131
24	.03794496	.03933703	.05414485	.04716007	.06116114
	.00465222	.00709460	.00841389	.00372388	.02236027

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00244256	.00332708	.00654944	.00574224
2	.00118700	.01175781		.00544950	.01011305
3	.01175726	.01660609	.02154352	.00682828	.02120114
5	.02164818	.02931815	.02456847	.02684454	.01961045
8	.03133369	.03116467	.01413242	.01846316	.02567439
12	.02077101	.01817751	.00801057	.01106039	.01247707
18	.01017891	.01461565	.00505750	.01650950	.00901523
24	.01506265	.00539425	.00283084	.00625876	.00100510

INCHES	6	7	8	9	10
1	.02298416	.01798449	.02363568	.04896347	.11518780
2	.02515270	.05562829	.05915271	.08074034	.19076527
3	.03099535	.06339293	.07367099	.10455590	.19453880
5	.03686879	.06651707	.09172021	.06612182	.23676768
8	.04878079	.07713386	.07896587	.05146326	.16704634
12	.02676502	.06591878	.07598454	.01976732	.13328622
18	.01593402	.02125016	.03039493	.02295087	.04670268
24	.00465222	.00709460	.00841389	.00372388	.02236027

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	5.76923077	1.00000000	1.54173669
1	.94400000	1.05481693	5.82803295	.80800000	1.85262985
2	.88099999	1.09294667	5.84987052	.65300001	2.01275353
3	.82999999	1.07209026	5.44336348	.52699999	2.10518721
5	.71299999	.96398536	4.56743694	.34400000	2.06192577
8	.53199999	.72515846	3.17884829	.18100000	1.53466005
12	.31499999	.46921844	2.05695063	.07700000	.88299490
18	.14700000	.21360946	.83101560	.02100000	.47272713
24	.05300000	.08179647	.28012221	.00500000	.08179647

RUN NUMBER 597	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 2541	SLANT MFP 5.117966
INC. ENERGY 5.000000	COS. THETA 1.000000	CUTOFF EGY .000010	INC.FLX/NT 1.000000	INC.DSE/NT 5.800000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.007000	.015541	.001715	.024000	.037097	.004093
2	.004000	.005394	.000549	.024000	.050183	.005105
3	.002000	.002860	.000399	.014000	.023146	.003232
4	.004000	.006369	.001428	.009000	.019137	.004289
5	.001000	.001011	.000348	.019000	.027508	.009486
6	.003000	.004506	.002408	.025000	.042425	.022676
7	.004000	.007082	.004884	.026000	.046062	.031767
8	.005000	.011142	.008260	.044000	.086716	.064290
9	.003000	.003711	.003007	.043000	.095161	.077114
10	.015000	.021836	.020706	.061000	.135398	.128394

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.009000	.034377	.027820	.032000	.122231	.071653
2	.003000	.011459	.005637	.029000	.110772	.058570
3	.006000	.019098	.017699	.026000	.082760	.052889
4	.002000	.006366	.003446	.022000	.070028	.052471
5	.004000	.012732	.007481	.020000	.063662	.045483
6	.008000	.025465	.015506	.018000	.057296	.042941
7	.002000	.006366	.007771	.017000	.054113	.044055
8	.004000	.007639	.004629	.034000	.064935	.056810
9	.003000	.005730	.002659	.030000	.057296	.068322
10	.002000	.003820	.003329	.012000	.022918	.035447
11	.002000	.003820	.004649	.017000	.032468	.059565
12	.003000	.001432	.005084	.032000	.015279	.060336

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.053000	.048706	.005000	.048000	.079451	.043706	.002073

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.289000	.562834	.350445	.011930	.854966	.076000	.582000

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
5805.502618	206402

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
598	5.00000000	.86603000	.00001010	2 A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.06474251	.03227200	.01948252	.01362252	.03283953
2	.12411700	.07838855	.07543876	.03307582	.05841555
3	.15228501	.13623056	.07175357	.07437478	.08518714
5	.12481759	.15056789	.08057265	.08221570	.07911236
8	.17261545	.15333707	.06452403	.05785311	.05975131
12	.19540235	.16584789	.09731009	.05363481	.08184975
18	.14165613	.10605198	.04550761	.03899827	.05099382
24	.05356566	.04926031	.03854446	.01717024	.01923679
	.00549070	.00771457		.00116832	.00694959

INCHES	6	7	8	9	10
1	.08613202	.06408400	.05642949	.08327101	.20176098
2	.11621547	.09966926	.11331978	.11551051	.28392863
3	.14779181	.16474599	.18841591	.13337004	.35040653
5	.10533446	.16564481	.16862239	.13654316	.34336853
8	.15315176	.18660306	.15479037	.12638717	.28419851
12	.11902127	.15326870	.17988570	.12432049	.23398229
18	.08749164	.10230268	.09042350	.05480921	.12218315
24	.03182279	.02074693	.03746122	.01295088	.04172123
	.00123910	.00761724	.00787151	.00370315	.00812816

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00465688	.00287944	.00234079	.00956844
2	.01430258	.01399534	.01525510	.01107683	.01601510
3	.00597353	.01707026	.00853063	.00817795	.02397307
5	.02646225	.02537461	.02530532	.02038118	.01425878
8	.02620881	.02690197	.01636811	.01375279	.01931225
12	.03002582	.03128977	.01135077	.01171986	.02198624
18	.01629079	.02070516	.01947515	.00602446	.01196030
24	.00549070	.00771457		.00116832	.00694959

INCHES	6	7	8	9	10
1	.01887336	.01809710	.03286559	.04997139	.12790729
2	.02599595	.04756186	.07347642	.04807543	.21188973
3	.02733462	.06886103	.07336102	.07806111	.22718878
5	.03065458	.06243745	.07893467	.05793412	.23381380
8	.03765389	.06647698	.08610460	.06952037	.16870607
12	.02781227	.04988244	.04576828	.03617708	.09845113
18	.01047025	.01281805	.02613296	.00610847	.04038027
24	.00123910	.00761724	.00787151	.00370315	.00812816

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	6.66169852	1.15469441	1.77940184
1	.92100000	1.17013130	6.48453157	.90297104	2.00105038
2	.85799999	1.18316262	6.19480784	.70551828	2.21007964
3	.78199999	1.09047594	5.61914237	.55194393	1.98874347
5	.64699999	.91272754	4.36207549	.33717077	1.75038260
8	.48099999	.69150837	3.09328804	.16050253	1.56552586
12	.28699999	.42450777	1.67780880	.06004410	.90046211
18	.11000000	.18306750	.60567072	.01270163	.33518215
24	.03600000	.05219172	.17054532	.00230939	.05219172

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
598	1000	2 A	04	5.909686
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
5.000000	.866030	.000010	1.154694	6.697228

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003000	.005099	.000563	.039000	.056069	.006187
2	.006000	.007043	.000716	.018000	.027948	.002843
3				.012000	.016872	.002356
4	.001000	.001069	.000240	.007000	.011797	.002644
5	.003000	.007707	.002657	.016000	.028440	.009807
6	.001000	.001069	.000571	.035000	.074593	.039869
7	.006000	.006859	.004730	.041000	.055499	.038275
8	.005000	.009029	.006694	.038000	.048870	.036231
9	.003000	.003206	.002598	.038000	.072115	.058438
10	.006000	.006859	.006504	.088000	.174731	.165693

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.005000	.009549	.005855	.059000	.112681	.054948
2	.007000	.013369	.006042	.037000	.070665	.050287
3	.006000	.011459	.007879	.060000	.114591	.069697
4	.007000	.013369	.010026	.045000	.085943	.061804
5	.002000	.003820	.000716	.024000	.045836	.049949
6	.005000	.009549	.007124	.023000	.043927	.048919
7				.024000	.045836	.048079
8				.019000	.036287	.028738
9				.009000	.017189	.059948
10	.001000	.001910	.003374	.008000	.015279	.051683
11	.001000	.001910	.007253	.013000	.024828	.088860
12				.011000	.021008	.079110

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.036000	.027274	.002000	.034000	.047939	.025274	.001213

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.332000	.566935	.362343	.014190	.843970	.071000	.561000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
5805.505236	1.78363	213698

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
599	5.00000000	.70711000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.05894453	.04824400	.03215353	.02590303	.03785603
1	.07531823	.11522201	.05653154	.05342520	.09946506
2	.15323887	.13095030	.06840325	.04203254	.08550788
3	.14783037	.14809731	.08245449	.08853128	.10095266
5	.23235338	.17752502	.08155061	.09277827	.10745325
8	.16899063	.11243161	.04291335	.05534419	.08879607
12	.11683258	.07799831	.03353281	.04358238	.02959414
18	.02895850	.03809672	.03754514	.01339429	.00681201
24	.00205210	.00215074	.00265125	.00320370	
INCHES	6	7	8	9	10
	.09974197	.11950902	.08621952	.07959301	.23209699
1	.11613888	.14407591	.16294274	.17796254	.36223302
2	.13909111	.19891866	.19762380	.22008790	.34817420
3	.17856577	.25352432	.19947955	.19873715	.34026110
5	.13747889	.15332801	.17301166	.14559858	.33336746
8	.07885113	.13567285	.14826212	.05798981	.18578826
12	.11553200	.07150774	.07022204	.05492136	.07011781
18	.01834886	.01781028	.02833779	.01753126	.02793344
24	.00589839	.00369542	.00208777		.00344919

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
		.00336445	.00939994	.00483562	.01484838
1	.01517958	.00939958	.00100421	.00471797	.00875807
2	.01048261	.01146023	.01324259	.00978216	.01119740
3	.02917317	.03088691	.01926277	.02768193	.02284176
5	.03783080	.04138757	.01391407	.02956776	.02515987
8	.01733471	.03129898	.01498478	.01482604	.01471051
12	.00588649	.01486805	.01136259	.00356888	.00397553
18	.00205210	.00215074	.00265125	.00320370	
24					
INCHES	6	7	8	9	10
	.01723921	.01295123	.02837462	.06312265	.17775964
1	.03273975	.03830639	.06605972	.09807152	.22562339
2	.03201121	.07550010	.08534716	.13392360	.23156297
3	.05455235	.07982900	.08866440	.07091928	.23030406
5	.02663921	.08364621	.08548904	.04249248	.15132762
8	.04776881	.02450203	.03858595	.03276265	.06432572
12	.01360459	.01070237	.01294385	.00886952	.02559932
18	.00589839	.00369542	.00208777		.00344919
24					

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	8.15888725	1.41420712	2.20663212
1	.89800000	1.37840902	7.63358191	1.04651327	2.40982840
2	.79899999	1.27343146	6.80256592	.77357130	2.35759981
3	.72799999	1.18726392	6.12492732	.57275387	2.31118788
5	.58799999	.96665540	4.47987652	.31253976	1.94698490
8	.41099999	.66331907	2.75039170	.12586444	1.20090446
12	.22399999	.33786955	1.24498045	.03676938	.72061056
18	.07500000	.11703802	.39945755	.00565682	.24042514
24	.01900000	.02518856	.07175428		.02518856

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
599	1000	2A	04	7.237864
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
5.000000	.707110	.000010	1.414207	8.202401

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.002000	.001445	.000159	.031000	.041680	.004599
2	.002000	.001595	.000162	.029000	.034114	.003470
3	.002000	.002110	.000295	.020000	.022736	.003175
4	.001000	.004183	.000937	.014000	.018316	.004105
5				.021000	.026768	.009230
6	.004000	.004005	.002141	.050000	.070529	.037696
7	.003000	.002467	.001702	.057000	.084506	.058280
8	.002000	.001445	.001071	.057000	.060967	.045199
9				.035000	.056281	.045607
10	.003000	.002618	.002482	.099000	.164118	.155629

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.007000	.013369	.003634	.055000	.105042	.040482
2	.004000	.007639	.004942	.055000	.105042	.048055
3	.002000	.003820	.001319	.061000	.116501	.059422
4	.003000	.005730	.003620	.060000	.114591	.060680
5				.029000	.055386	.048619
6				.040000	.076394	.071051
7	.002000	.003820	.001787	.035000	.066845	.061451
8				.030000	.057296	.049725
9	.001000	.001910	.001790	.010000	.019099	.055145
10				.015000	.028648	.086684
11				.015000	.028648	.082952
12				.008000	.015279	.036635

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.019000	.008950		.019000	.019867	.008950	.000541

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.413000	.580015	.366992	.016574	.828841	.066000	.502000

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
5805.505236	142408	200655

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
600	5.00000000	.34202000	.00001010	2A

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.05922251	.04412601	.04709953	.04212550	.04472702
2	.11337541	.12079467	.06197569	.05981803	.08844674
3	.15623241	.14481799	.07545487	.06172984	.06809852
5	.17808765	.14674182	.09415229	.05534281	.10019016
8	.16433129	.16001994	.06396676	.08693852	.07373362
12	.14775587	.10712746	.06575551	.04030976	.05841516
18	.07464163	.04773286	.04853892	.01319626	.02514469
24	.01163354	.02249847	.00586750	.00378163	.01653717
	.00223467	.00382790		.00615310	.00268287

INCHES	6	7	8	9	10
1	.08802001	.15120801	.12918148	.19653100	.38056849
2	.12629695	.17604775	.17113810	.24371089	.55140183
3	.16819745	.24625835	.19978696	.19207648	.49579118
5	.15719268	.14958760	.20046526	.16707855	.36487070
8	.13539880	.13059291	.20039042	.12382172	.24339971
12	.09742030	.08392694	.10454841	.03361647	.09737800
18	.03499860	.04133478	.04569185	.01934094	.02553262
24	.01291273	.01343169	.01096132		.00431938
		.00113129	.00292066	.00170258	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00367630	.01235415	.00102900	.00769665
2	.00861842	.01601211	.01792434	.01700657	.01478369
3	.02242977	.02628520	.02279002	.02368172	.03148037
5	.02919806	.04485028	.02194302	.04101098	.01152753
8	.04054933	.03165264	.02141592	.01308995	.02302534
12	.02715236	.01760443	.01343470	.00714566	.01319372
18	.00123435	.00851118	.00467055	.00378163	.00525929
24	.00223467	.00382790		.00615310	.00268287

INCHES	6	7	8	9	10
1	.01877179	.04564489	.04491872	.09750286	.34237460
2	.03995345	.07307083	.07595503	.10252002	.35236727
3	.05378320	.05802623	.10457422	.09031681	.32057032
5	.05963585	.06034827	.11031510	.08523479	.22120169
8	.04049093	.05254227	.07863515	.02615089	.08919372
12	.01198505	.02956717	.02958294	.01689123	.02553262
18	.01050768	.01194328	.00958597		.00310116
24		.00113129	.00292066	.00170258	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	16.86810937	2.92380562	4.02715484
1	.77599999	2.14112878	11.92264954	1.56715984	3.28016588
2	.63099999	1.55734395	8.17807040	.83913222	2.64757628
3	.54299999	1.20420395	5.85252599	.45026609	2.06397559
5	.40999999	.81391302	3.47107735	.12864747	1.51124115
8	.25799999	.43428898	1.54338958	.01754281	.85379672
12	.12600000	.19208989	.59216743		.37715314
18	.03700000	.05859508	.16371754		.10194343
24	.01300000	.02065307	.04306365		.02065307

RUN NUMBER 600	HISTORIES 1000	ENERGY SET 2A	ANGLE SET 04	SLANT MFP 14.963938
INC. ENERGY 5.000000	COS. THETA .342020	CUTOFF EGY .000010	INC.FLX/NT 2.923806	INC.DSE/NT 16.958073

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.002000	.000771	.000085	.026000	.020255	.002235
2	.003000	.001443	.000147	.020000	.015092	.001535
3				.023000	.016109	.002250
4	.002000	.002694	.000604	.022000	.014408	.003229
5	.002000	.001021	.000352	.028000	.015298	.005275
6				.047000	.030105	.016090
7	.001000	.000422	.000291	.066000	.051716	.035666
8	.002000	.001093	.000811	.058000	.044183	.032756
9	.001000	.000671	.000544	.074000	.067218	.054469
10				.145000	.130162	.123430

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.003000	.005730	.000372	.070000	.133690	.031306
2				.060000	.114591	.027484
3	.002000	.003820	.001153	.057000	.108862	.031051
4	.002000	.003820	.000171	.061000	.116501	.028953
5				.034000	.064935	.026580
6	.002000	.003820	.001081	.040000	.076394	.032605
7	.001000	.001910	.000442	.042000	.080214	.035222
8	.002000	.003820	.001326	.049000	.093583	.044114
9				.018000	.034377	.041275
10				.022000	.042017	.061880
11	.001000	.001910	.000866	.025000	.047746	.077015
12				.031000	.059205	.091424

(S+U) NO. TRAN. FACT. .013000	(S+U) DOSE TRAN. FACT. .002833	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT. .013000	SCAT.NO.FLX TRAN. FACT. .008115	SCAT. DOSE TRAN. FACT. .002833	SCAT. EGY. TRAN. FACT. .000212
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NUMBER REFL. FACT. .509000	NO. FLUX REFL. FACT. .404545	DOSE REFL. FACT. .276936	ENERGY REFL. FACT. .023977	ENERGY ABS. FACTOR .758094	NUMBER ABS. FACTOR .077000	NO. CUTOFF FACTOR .401000
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MEAN ENERGY SCAT.TR.NT. .081687	MEAN ENERGY REFL. NT. 235534
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5805.505236

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
601	14.00000000	1.00000000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
1	.07414166	.02195629	.02213490	.01507999	.02591229
2	.05492191	.05661344	.03831035	.03236607	.05070612
3	.07564305	.08731859	.05613625	.03795715	.04739002
5	.12598503	.08914616	.05802533	.05174941	.07611353
8	.14064132	.08046911	.05972348	.04723573	.09850505
12	.13606755	.08341364	.02131152	.08049247	.04586169
18	.09599224	.07013809	.03089998	.03080799	.04254475
24	.03924291	.03780276	.01190750	.02182774	.01479051
24	.00859301	.00831644	.00234821	.00454484	.00217375

INCHES	6	7	8	9	10
1	.04076199	.06495431	.06108319	.03410358	.14111492
2	.09000305	.08732816	.08506422	.06716517	.19041125
3	.08821353	.14257008	.08935282	.08028319	.26684992
5	.09697632	.14164312	.11102388	.06891551	.32120591
8	.07335795	.12574681	.07553725	.06720785	.30376392
12	.11936582	.10677229	.07376763	.04846054	.26441193
18	.09367284	.06096677	.04429366	.04853181	.18427360
24	.04632596	.03855642	.03004236	.01694661	.11487403
24		.01139338	.00748152	.00191343	.04579731

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
1		.00979900		.00112070	.00407197
2	.00293426	.00795462	.00513582	.00113475	.00629950
3	.00776543	.01387756	.00955467	.00908004	.00859421
5	.01450253	.01250725	.02327360	.00606937	.02400870
8	.02716234	.01881253	.00769093	.02023657	.01618689
12	.02831834	.02004107	.00908871	.00315225	.01632864
18	.01900027	.00573628	.00373930	.00659760	.00423919
24	.00859301	.00831644	.00234821	.00454484	.00217375

INCHES	6	7	8	9	10
1	.01282939	.01759729	.01299049	.02355798	.08951712
2	.02847009	.03023274	.01934377	.03327867	.16930205
3	.02875935	.05099591	.03805676	.02517220	.21101650
5	.03443375	.04677460	.03970403	.04384197	.22843918
8	.05109297	.06363296	.03453279	.03071949	.22007674
12	.03160554	.03724055	.02658835	.03336967	.14956989
18	.01439670	.00849103	.01194852	.01456660	.09448192
24		.01139338	.00748152	.00191343	.04579731

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	7.00000000	1.00000000	1.47824942
1	.91800000	.99748395	6.71020701	.82600000	1.57888974
2	.86200000	.98708627	6.44558115	.68300000	1.65471460
3	.79899999	.96687262	6.06085717	.56400000	1.70478420
5	.67599999	.85755498	5.06422679	.38400000	1.45618846
8	.51299999	.70614421	3.84433563	.21600001	1.19592508
12	.31799999	.45630299	2.34230726	.10100001	.80312174
18	.15400000	.21519741	1.11659862	.03200001	.40431679
24	.07200000	.10256190	.49344259	.01000000	.10256190

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
601	1000	2	2541	4.586730
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
14.000000	1.000000	.000010	1.000000	7.000000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.006000	.008477	.000775	.031000	.074142	.006779
2	.006000	.008257	.000696	.015000	.021956	.001851
3	.002000	.002382	.000276	.009000	.022135	.002561
4	.002000	.004507	.000837	.007000	.015080	.002801
5	.002000	.002184	.000624	.014000	.025912	.007404
6				.024000	.040762	.018052
7	.005000	.012140	.006937	.037000	.064954	.037117
8	.006000	.007494	.004603	.027000	.061083	.037523
9	.001000	.001843	.001343	.016000	.034104	.024847
10	.032000	.048404	.047021	.063000	.141115	.137083

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.010000	.038197	.034742	.017000	.064935	.025009
2	.007000	.026738	.016227	.017000	.064935	.039843
3	.007000	.022282	.014309	.023000	.073211	.039188
4	.007000	.022282	.014177	.013000	.041380	.024183
5	.004000	.012732	.008638	.024000	.076394	.059772
6				.018000	.057296	.047754
7	.006000	.019098	.021083	.019000	.060479	.046627
8	.007000	.013369	.012915	.027000	.051566	.042555
9	.007000	.013369	.014531	.019000	.036287	.034826
10	.002000	.003820	.004423	.018000	.034377	.042884
11	.003000	.005730	.010829	.018000	.034377	.056418
12	.002000	.000955	.004357	.030000	.014324	.046882

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.072000	.073113	.010000	.062000	.095690	.063113	.002770

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.243000	.501243	.276016	.006041	.901887	.281000	.404000

MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
7006.802618	348041

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
602	14.00000000	.86603000	.00001010	8

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.03586601	.02402101	.01192553	.01265402	.03131252
2	.04727330	.03761820	.02267708	.05012249	.05809509
3	.08014296	.09511380	.04707648	.03153594	.05448157
5	.14172549	.10961593	.08043614	.04968769	.04755715
8	.16117259	.13224392	.07282433	.03387222	.07585305
12	.11432144	.11816751	.05964562	.06408423	.05871105
18	.12138047	.09594122	.04265827	.02533910	.04951935
24	.04640317	.02280103	.03190062	.01890372	.00871515
	.00334626	.01231738		.00183540	

INCHES	6	7	8	9	10
1	.05296748	.10257751	.04640904	.05306301	.14980002
2	.08593258	.11276255	.06642892	.07648216	.25273592
3	.11124983	.11743053	.08010892	.08790939	.32626727
5	.13465416	.15610847	.09986734	.09488240	.40152642
8	.09145580	.12047053	.11128077	.08365051	.38964067
12	.08813614	.08686804	.06121533	.06396486	.27290223
18	.08121150	.06252881	.06288768	.05787305	.18568599
24	.01946349	.03444656	.03003033	.01309495	.08684433
	.02258968	.00719032	.00389243	.00665303	.02711311

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1				.00660277	.00391523
2	.00279599	.00790005	.00853696	.01252826	.01011752
3	.00621304	.01187698	.00828444	.00148602	.01568681
5	.02344076	.02487326	.01285912	.00164902	.01904487
8	.02364868	.03297049	.01651500	.01165322	.01412549
12	.02166620	.02212547	.01209138	.00338467	.00835069
18	.01253564	.00354682	.00474509	.00142880	.00643009
24	.00334626	.01231738		.00183540	

INCHES	6	7	8	9	10
1	.00885355	.02159692	.01242653	.02257064	.11256317
2	.02032546	.02519911	.03314487	.04284782	.20556485
3	.01580867	.04398024	.04745553	.03394967	.27568715
5	.03871224	.05142411	.04840207	.02464442	.31022632
8	.02774100	.04329082	.02931660	.03378711	.22066336
12	.02068380	.04430857	.01389994	.01963758	.15962310
18	.01080232	.01576209	.01162849	.01179283	.06884725
24	.02258968	.00719032	.00389243	.00665303	.02711311

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.15469441	8.08286087	1.15469441	1.63578312
1	.90500000	1.11459373	7.57211340	.92606491	1.73619321
2	.83199999	1.11142940	7.20127202	.74246851	1.77378519
3	.77299999	1.05625088	6.74755861	.59582232	1.91188352
5	.64599999	.93863473	5.57902883	.38335854	1.65582295
8	.46099999	.65136452	3.57602427	.19745274	1.18546920
12	.28399999	.40660001	2.12978731	.08082861	.86585405
18	.12000000	.16830391	.85739496	.02078449	.33338785
24	.05700000	.09071107	.39412160	.00577347	.09071107

RUN NUMBER 802	HISTORIES 1000	ENERGY SET 2	ANGLE SET 04	SLANT MFP 5.296272
INC. ENERGY 14.000000	COS. THETA .866030	CUTOFF EGY .000010	INC.FLX/NT 1.154694	INC.DSE/NT 8.082861

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.003000	.003022	.000276	.022000	.031061	.002840
2	.004000	.008959	.000755	.014000	.020803	.001753
3				.009000	.010328	.001195
4	.001000	.001700	.000316	.009000	.010959	.002035
5				.014000	.027118	.007748
6	.010000	.024110	.010677	.033000	.045871	.020314
7	.006000	.006491	.003709	.042000	.088835	.050763
8	.003000	.003653	.002244	.020000	.040192	.024689
9	.005000	.006421	.004678	.020000	.045954	.033481
10	.020000	.022609	.021963	.070000	.129731	.126025

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.013000	.024828	.016809	.044000	.084034	.035744
2	.005000	.009549	.004866	.029000	.055386	.031417
3	.013000	.024828	.015940	.037000	.070665	.046197
4	.005000	.009549	.008835	.034000	.064935	.039643
5	.002000	.003820	.005518	.012000	.022918	.023635
6	.004000	.007639	.006395	.019000	.036287	.029612
7	.001000	.001910	.003153	.021000	.040107	.044817
8	.005000	.009549	.009877	.022000	.042017	.035696
9				.008000	.015279	.056045
10				.008000	.015279	.039818
11	.003000	.005730	.009490	.011000	.021008	.081677
12	.001000	.001910	.004333	.008000	.015279	.052970

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.057000	.049619	.005000	.052000	.076965	.044619	.002051

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.253000	.450852	.270844	.006884	.905638	.291000	.399000

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
7006.805236	552266	380960

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
803	14.00000000	.70711000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.04089154	.03646102	.01788301	.01235054	.03274852
2	.08846092	.05511898	.06008731	.03328299	.05467915
3	.12979484	.08225597	.06791783	.05309878	.07940160
5	.15915263	.13872402	.06037680	.03969019	.08693513
8	.14028774	.13977790	.08068069	.05353863	.08506328
12	.08580207	.07726640	.05297485	.04080130	.04397940
18	.06779111	.08102412	.02088145	.02337048	.03417024
24	.03397659	.01343116	.01147231	.00674203	.00954230
	.00406936	.00101643		.00247688	

INCHES	6	7	8	9	10
1	.04267953	.12407749	.06390352	.07129049	.16476099
2	.07864080	.12424325	.10205790	.09871510	.31191921
3	.09567589	.14100499	.13060002	.12449921	.38856562
5	.12767271	.16719956	.13714740	.09533687	.38807851
8	.16149827	.15442183	.10402707	.09632717	.30693129
12	.12665295	.07576217	.07669688	.05009414	.24362856
18	.04869213	.06529903	.05774183	.04126737	.13085564
24	.01746317	.01086615	.01308205	.00360200	.05419031
	.00727433	.00854167	.01392512		.02024526

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1			.00280155	.00577814	.00884703
2	.00167873	.00294571	.01142656	.00532397	.01654496
3	.00991711	.01340090	.01054512	.00634043	.02003702
5	.02154813	.02916679	.01946699	.02225596	.02792532
8	.02241684	.02842065	.01280249	.00911150	.00989990
12	.01394047	.03233222	.00788545	.00657311	.01868549
18	.01244710	.00398633	.00523897		.00647056
24	.00406936	.00101643		.00247688	

INCHES	6	7	8	9	10
1	.00907336	.02222765	.02708256	.04439501	.14902413
2	.02569697	.02670394	.03875672	.05332171	.26628868
3	.05137483	.05948360	.04326649	.05114829	.29996509
5	.04456634	.04959750	.05771827	.05162093	.25858288
8	.04397483	.03733211	.02599167	.02763876	.21098568
12	.01801895	.03187287	.02903290	.02260691	.11437046
18	.01152737	.00364660	.00845372	.00360200	.04908286
24	.00727433	.00854167	.01392512		.02024526

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	9.89944987	1.41420712	1.97992113
1	.88900000	1.34826944	9.08786964	1.07904005	2.08624563
2	.79599999	1.27317069	8.29859147	.82448275	2.11729751
3	.72499999	1.19338683	7.40065488	.62790796	2.02822179
5	.58399999	.94872875	5.36058882	.36627966	1.68883352
8	.37899999	.59120826	3.21507208	.16263382	1.03629255
12	.22200000	.35047291	1.69067404	.05515409	.62624748
18	.08000000	.11435497	.53849030	.00989945	.18426752
24	.03500000	.05896326	.27419943	.00141422	.05896326

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
603	1000	2	0°	6.486586
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
14.000000	.707110	.000010	1.414207	9.899450

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
2.5400	2.5400	2.5400	5.0800	7.6200	10.1600
15.2400	15.2400				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.003000	.002983	.000273	.021000	.028915	.002644
2	.001000	.000722	.000061	.018000	.025782	.002173
3				.014000	.012645	.001463
4	.002000	.001595	.000296	.009000	.008733	.001622
5				.016000	.023157	.006616
6	.004000	.006800	.003012	.019000	.030179	.013365
7	.007000	.005807	.003319	.051000	.087736	.050135
8	.003000	.009238	.005675	.026000	.045187	.027758
9				.033000	.050410	.036727
10	.014000	.014925	.014499	.079000	.116504	.113175

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.009000	.017189	.007436	.031000	.059205	.024983
2	.004000	.007639	.003666	.039000	.074484	.034846
3	.008000	.015279	.009270	.032000	.061115	.030194
4	.008000	.015279	.010094	.054000	.103132	.052399
5				.017000	.032468	.025606
6	.001000	.001910	.000242	.022000	.042017	.033087
7				.024000	.045836	.028332
8				.025000	.047746	.046767
9	.001000	.001910	.003538	.012000	.022918	.059329
10	.001000	.001910	.007760	.010000	.019099	.042029
11	.002000	.003820	.009814	.004000	.007639	.020769
12				.016000	.030558	.089969

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.035000	.028133	.001000	.034000	.042070	.027133	.001217

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.286000	.429249	.255679	.007967	.907153	.281000	.398000

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
7006.805236	5.01190	3.90001

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
804	14.00000000	.34202000	.00001010	2

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
1	.04667452	.02666351	.02896752	.02964302	.04430201
2	.08424970	.09417450	.04655857	.04449259	.08758626
3	.07064129	.06568878	.02943214	.05785000	.10714705
5	.13643228	.06339262	.05637999	.04826122	.11757791
8	.10386913	.10420200	.04866215	.04891201	.07001134
12	.06457547	.09572069	.03548469	.04941825	.04657669
18	.06884218	.03514197	.01110711	.01711963	.02138468
24	.03107341	.01461151	.00493154	.00105923	.00781541
	.00131054		.00110247		.00377466

INCHES	6	7	8	9	10
1	.06643948	.11539949	.08458201	.10409198	.31474397
2	.11025804	.14502974	.09179342	.10791519	.48438530
3	.11430327	.16429323	.12272289	.17199202	.49202606
5	.13223218	.14055972	.11246694	.10339761	.47433486
8	.10998487	.11430753	.07936771	.08859503	.31074459
12	.04423842	.07155622	.04124937	.05797076	.17711215
18	.03645439	.03573241	.02180858	.02478845	.07485142
24	.00330425	.01426060	.00844216	.00457124	.02516175
	.00324301	.00362079	.00812260	.00374871	.00599965

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
1		.00100220	.00326609	.00696654	.00610108
2	.01580552	.00590626	.00670049	.00632729	.02736798
3	.00908107	.00404740	.01639851	.02045380	.03040169
5	.01537195	.02040524	.01664869	.01660489	.02146554
8	.01507371	.04166828	.01218251	.01829501	.01917902
12	.01874313	.01911345	.00524670	.00481551	.00976010
18	.01485402	.00443312	.00493154	.00105923	.00209934
24	.00131054		.00110247		.00377466

INCHES	6	7	8	9	10
1	.03197558	.03503914	.02116389	.02356996	.30976555
2	.03696100	.06088435	.03733505	.07653494	.40016395
3	.03126683	.06215836	.03510272	.06090486	.39406901
5	.02654694	.04992570	.04807921	.06176876	.27160046
8	.01917764	.04600226	.03372389	.04570374	.14805741
12	.02407267	.00968978	.01377340	.02213985	.06796312
18	.00330425	.01426060	.00844216	.00457124	.02246926
24	.00324301	.00362079	.00812260	.00374871	.00599965

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	20.46663937	2.92380562	3.73558896
1	.76199999	2.11126684	14.34838286	1.67241684	2.96886012
2	.61899999	1.63007128	10.47390322	.95608443	2.35218117
3	.50999999	1.21063590	7.51254554	.54675167	1.93178698
5	.37199999	.72676952	4.05251609	.17835212	1.25700851
8	.24599999	.43122533	1.98432533	.03216184	.71606457
12	.12400000	.19824152	.82147357	.00292383	.35015460
18	.04800000	.08042476	.30272084		.11523111
24	.02000000	.03092242	.12991388		.03092242

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
804	1000	2	04	13.410707

INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
14.000000	.342020	.000010	2.923806	20.466639

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)				
2.5400	2.5400	2.5400	5.0800	7.6200
15.2400	15.2400			10.1600

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.001000	.000422	.000039	.023000	.015964	.001460
2				.019000	.009119	.000769
3	.001000	.000422	.000049	.017000	.009907	.001146
4				.014000	.010138	.001883
5	.001000	.002023	.000578	.028000	.015152	.004329
6	.002000	.001093	.000484	.037000	.022724	.010063
7	.003000	.001193	.000682	.054000	.039469	.022554
8	.004000	.003144	.001931	.042000	.028929	.017771
9	.003000	.001266	.000922	.052000	.035602	.025938
10	.005000	.002141	.002080	.113000	.107649	.104573

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.006000	.011459	.003146	.064000	.122231	.024411
2	.005000	.009549	.001939	.047000	.089763	.019330
3	.003000	.005730	.001670	.043000	.082124	.019391
4	.002000	.003820	.000876	.056000	.106952	.026395
5				.025000	.047746	.017786
6	.001000	.001910	.001245	.025000	.047746	.017392
7				.031000	.059205	.022752
8	.001000	.001910	.000568	.046000	.087853	.035337
9				.006000	.011459	.016007
10				.012000	.022918	.029475
11	.002000	.003820	.003477	.017000	.032468	.047993
12				.027000	.051566	.087530

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.020000	.006766		.020000	.011705	.006766	.000528

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.399000	.294653	.190485	.011464	.880074	.291000	.290000

	MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
7006.805236	369357	402262

RUN NUMBER INC.ENERGY COS. THETA CUTOFF EGY. ENERGY SET
28-3 .50000000 1.00000000 .00001010 28

SLAB CONFIGURATION NEVADA TEST SITE (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
4	.16409529	.02461731	.08314724	.03330544	.07886149
6	.35165158	.04682018	.24459442	.05320854	.10098744
8	.17244465	.03507256	.12251793	.03886940	.04925245
12	.10124518	.01391477	.05609067	.01439714	.02160472
16	.02413066	.00375825	.00997824	.00196498	.00297588
18	.00353409	.00037537	.00123539	.00024446	.00015624
20	.00119296	.00009520	.00040834	.00005389	.00004451
24	.00044997	.00004453	.00011209	.00002067	.00001769
	.00002910	.00000470	.00000853	.00000037	.00000077
INCHES	6	7	8	9	10
4	.04669089	.07450148	.04856891	.15422966	.20875448
6	.05279776	.06406831	.05308999	.13225039	.13024167
8	.02427861	.03433967	.02388498	.04855210	.05901560
12	.01089801	.01362464	.00909412	.01659986	.01008489
16	.00128191	.00092482	.00062085	.00151454	.00083121
18	.00008226	.00004454	.00011985	.00010092	.00000897
20	.00003492	.00002712	.00001579	.00003494	.00001118
24	.00001366	.00001390	.00000661	.00000769	.00000174
	.00000086	.00000028	.00000026	.00000050	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
4	.09455349	.00881157	.10492839	.03043824	.06237806
6	.06364435	.01714270	.05658878	.02300639	.03125883
8	.04760282	.00710981	.03232033	.01047671	.01356165
12	.01382652	.00234283	.00687100	.00146213	.00210782
16	.00223533	.00020160	.00086473	.00020466	.00012958
18	.00076284	.00006148	.00027547	.00004171	.00002875
20	.00026735	.00003185	.00008447	.00001658	.00001318
24	.00002910	.00000470	.00000853	.00000037	.00000077
INCHES	6	7	8	9	10
4	.03897912	.03400473	.02776441	.07770279	.10473812
6	.01392526	.02330441	.01490309	.03271762	.04929716
8	.00755466	.00951828	.00619893	.01269095	.00868207
12	.00096154	.00059639	.00042292	.00110714	.00076332
16	.00008071	.00004340	.00009080	.00007507	.00000897
18	.00002630	.00002294	.00000958	.00002873	.00001118
20	.00001084	.00000919	.00000457	.00000714	.00000174
24	.00000086	.00000028	.00000026	.00000050	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	2.40000000	1.00000000	1.86604382
4	.38899999	.61929892	.76961667	.03499999	1.26471030
6	.20399999	.33178860	.36956927	.00599999	.61422795
8	.09649989	.15671620	.14219527	.00100001	.26855401
12	.01887498	.03046161	.02264238		.04798134
16	.00248428	.00393485	.00270475		.00590209
18	.00083200	.00126899	.00087523		.00191886
20	.00028976	.00044689	.00030420		.00068854
24	.00003100	.00004536	.00002992		.00004536

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
29-8	1000	2E	2541	20.0917665
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
.5000000	1.0000000	.0000101	1.0000000	2.3999999

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.0000198	.0000312	.0000084	.0778789	.1640953	.0444425
2	.0000034	.0000047	.0000012	.0121875	.0246173	.0063595
3	.0000054	.0000097	.0000023	.0558750	.0831472	.0204404
4	.0000002	.0000004	.0000001	.0241875	.0333054	.0081876
5	.0000005	.0000008	.0000002	.0363125	.0788615	.0233298
6	.0000007	.0000009	.0000003	.0271875	.0466909	.0177036
7	.0000002	.0000003	.0000002	.0391250	.0745015	.0372507
8	.0000002	.0000003	.0000002	.0270625	.0485689	.0283319
9	.0000005	.0000005	.0000004	.0761250	.1542297	.1156723
10				.1150000	.2087545	.1913583

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0000059	.0000224	.0000070	.0372500	.1422842	.0790797
2	.0000034	.0000131	.0000041	.0546914	.2089053	.1193619
3	.0000034	.0000109	.0000034	.0465000	.1480138	.1048071
4	.0000022	.0000070	.0000021	.0425000	.1352814	.0990601
5	.0000039	.0000124	.0000041	.0417500	.1328941	.0794437
6	.0000032	.0000101	.0000037	.0426250	.1356793	.0845863
7	.0000019	.0000062	.0000024	.0343750	.1094188	.0735829
8	.0000022	.0000042	.0000018	.0462500	.0883308	.0735042
9	.0000012	.0000023	.0000011	.0386250	.0737682	.0718127
10	.0000012	.0000023	.0000013	.0341875	.0652932	.0720441
11	.0000007	.0000014	.0000010	.0270625	.0516855	.0757938
12	.0000017	.0000008	.0000013	.0451250	.0215455	.0711102

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0000310	.0000134		.0000310	.0000485	.0000134	.0000005

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.4909414	.9167722	.4930765	.1739547	.8260334	.0013833	.5076443

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
24.02202618	.0088000	.1771644

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
37-S	.50000000	.70711000	.00001010	2E

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
	.10877475	.02367802	.15435107	.03840551	.09800313
4	.22037421	.03900663	.18301775	.04547493	.05823599
6	.14877448	.02932979	.12414834	.01587892	.04843442
8	.08366933	.01359145	.03914684	.00766831	.01137747
12	.01691142	.00277913	.00632418	.00114567	.00107921
16	.00244643	.00036727	.00054261	.00015575	.00018399
18	.00089197	.00007651	.00028174	.00004918	.00004027
20	.00033128	.00003238	.00008671	.00001915	.00002083
24	.00002076	.00000423	.00000864	.00000109	.00000172
INCHES	6	7	8	9	10
	.03594882	.09035944	.06364618	.19517793	.39560342
4	.05976103	.03787612	.04940809	.10250102	.07405291
6	.01783452	.01513041	.02037725	.02347781	.01834744
8	.00727092	.00573493	.00562256	.00829245	.00297118
12	.00087073	.00075376	.00054563	.00110183	
16	.00007454	.00009663	.00005170	.00024903	
18	.00001876	.00006212	.00002717	.00006924	
20	.00001957	.00001376	.00000561	.00000958	
24		.00000091	.00000047	.00000054	

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
4	.07442496	.02317654	.08486140	.02251249	.02870194
6	.06048479	.01732058	.07338235	.00717864	.03719962
8	.04545385	.00782727	.02320303	.00569593	.00806290
12	.01037387	.00185137	.00428924	.00084510	.00079205
16	.00159841	.00019510	.00038751	.00010299	.00016408
18	.00059483	.00005111	.00017549	.00003309	.00002386
20	.00019877	.00002567	.00005599	.00000803	.00001703
24	.00002076	.00000423	.00000864	.00000109	.00000172
INCHES	6	7	8	9	10
4	.04101412	.03336490	.03430306	.08274163	.05632736
6	.01292892	.00912798	.01399301	.01498721	.01674991
8	.00491712	.00423239	.00426668	.00755373	.00297118
12	.00053919	.00051072	.00044850	.00098856	
16	.00006247	.00005951	.00003191	.00015305	
18	.00000448	.00004195	.00001310	.00006530	
20	.00001231	.00001180	.00000414	.00000866	
24		.00000091	.00000047	.00000054	

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.41420712	3.39409710	1.41420712	2.54696477
4	.30899999	.49274206	.57839529	.01131367	.88102233
6	.15800000	.26335302	.23052000		.46173338
8	.07206242	.11418408	.09324171		.18534545
12	.01268749	.02063860	.01494638		.03151155
16	.00178118	.00275503	.00200785		.00416796
18	.00062888	.00100320	.00073646		.00151695
20	.00021799	.00034241	.00024039		.00053888
24	.00002392	.00003835	.00002561		.00003835

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
37-8	1000	2E	2541	28.4139183
INC. ENERGY	COS. THETA	CUTOFF EGY	INC. FLX/NT	INC. DSE/NT
.5000000	.7071100	.0000101	1.4142071	3.3940971

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.0000129	.0000146	.0000039	.0661953	.0769157	.0208314
2	.0000032	.0000030	.0000007	.0141875	.0167430	.0043252
3	.0000044	.0000069	.0000017	.0863125	.1091432	.0268310
4	.0000007	.0000008	.0000002	.0210625	.0271569	.0066761
5	.0000012	.0000012	.0000004	.0501875	.0692990	.0205009
6				.0160000	.0254198	.0096383
7	.0000007	.0000006	.0000003	.0401250	.0638941	.0319471
8	.0000002	.0000003	.0000002	.0300000	.0450049	.0262529
9	.0000005	.0000004	.0000003	.0850625	.1380123	.1033092
10				.1790000	.2797351	.2564239

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0000039	.0000149	.0000031	.0351250	.1341673	.0496869
2	.0000022	.0000084	.0000016	.0421250	.1609053	.0656560
3	.0000032	.0000101	.0000027	.0543789	.1730930	.0674370
4	.0000022	.0000070	.0000015	.0401250	.1277215	.0592697
5	.0000024	.0000078	.0000021	.0532500	.1694996	.0868371
6	.0000015	.0000047	.0000012	.0491914	.1565807	.0759879
7	.0000017	.0000054	.0000017	.0401875	.1279205	.0759652
8	.0000019	.0000037	.0000011	.0623750	.1191272	.0762959
9	.0000015	.0000028	.0000013	.0561875	.1073100	.0844890
10	.0000007	.0000014	.0000006	.0430625	.0822431	.0795430
11	.0000012	.0000023	.0000011	.0420625	.0803333	.0825432
12	.0000015	.0000007	.0000008	.0700625	.0334523	.0920834

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0000239	.0000079		.0000239	.0000278	.0000079	.0000007
NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.5881328	.8513238	.5069360	.2342584	.7657294	.0003362	.4115071
24.02202618		MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.			
		.0152054	.1991543			

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
24-S	1.00000000	1.00000000	.00001010	2D

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.

INCHES	1	2	3	4	5
4	.07255221	.13471008	.08178680	.03298945	.03975691
6	.20352002	.20725198	.07904180	.05040918	.06297977
8	.18613323	.14852203	.03826152	.02976700	.02656184
12	.13764428	.08762862	.01904306	.01251964	.01614812
16	.03794050	.01519131	.00429208	.00277628	.00472156
18	.00634097	.00338674	.00086672	.00046207	.00075132
20	.00359488	.00135530	.00044136	.00026978	.00046994
24	.00151902	.00077534	.00017883	.00011449	.00021583
24	.00015488	.00005381	.00002359	.00002053	.00004638

INCHES	6	7	8	9	10
4	.03991563	.05871711	.02860837	.14188859	.45544621
6	.06680127	.09462332	.02763484	.16497086	.15006793
8	.02904681	.04502402	.03777514	.05681009	.06765068
12	.01112730	.01619853	.00963406	.02839820	.02176629
16	.00242066	.00263220	.00198041	.00482616	.00252167
18	.00032460	.00090846	.00046332	.00065294	.00033026
20	.00011011	.00032802	.00033203	.00042811	.00014946
24	.00006315	.00013476	.00006635	.00013161	.00006735
24	.00001485	.00001624	.00000836	.00002246	.00001886

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS

INCHES	1	2	3	4	5
4	.05151261	.08150508	.03527966	.02505053	.02865732
6	.06013402	.06818724	.02019045	.01831492	.01443388
8	.06045485	.04698124	.01189037	.00800232	.00789709
12	.02098608	.00768115	.00260695	.00177615	.00322689
16	.00325939	.00169944	.00055233	.00040670	.00058925
18	.00211020	.00080608	.00024702	.00016679	.00037478
20	.00086117	.00047450	.00012445	.00005926	.00014152
24	.00015488	.00005381	.00002359	.00002053	.00004638

INCHES	6	7	8	9	10
4	.03169101	.03773170	.01951531	.09572843	.12700247
6	.01806889	.02593874	.02590841	.04141738	.05697409
8	.00838688	.01037359	.00689033	.01964074	.01881698
12	.00116158	.00191936	.00128670	.00363221	.00233437
16	.00025866	.00059019	.00034904	.00058648	.00032709
18	.00003528	.00018438	.00024518	.00035359	.00013976
20	.00003813	.00010120	.00003702	.00009355	.00006735
24	.00001485	.00001624	.00000836	.00002246	.00001886

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
4	1.00000000	1.00000000	3.79999999	1.00000000	2.03315584
6	.36199999	.56467413	1.15148326	.03100000	1.13850098
8	.22699999	.35456801	.59152724	.00500000	.67055235
12	.12662486	.20033438	.26109198	.00100001	.36110810
16	.02799997	.04661145	.05154240		.07930284
18	.00570310	.00861857	.00948458		.01448742
20	.00274999	.00466307	.00498935		.00747899
24	.00124995	.00199815	.00193548		.00326673
24	.00022069	.00037996	.00041624		.00037996

RUN NUMBER	HISTORIES	ENERGY SET	ANGLE SET	SLANT MFP
24-3	1000	20	2541	20.7168330
INC. ENERGY	COS. THETA	CUTOFF EGY	INC.FLX/NT	INC.DSE/NT
1.0000000	1.0000000	.0000101	1.0000000	3.8000000

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.0000938	.0001608	.0000271	.0392520	.0725522	.0122193
2	.0000313	.0000544	.0000084	.0851406	.1347101	.0209155
3	.0000176	.0000233	.0000043	.0295000	.0817868	.0152812
4	.0000098	.0000220	.0000053	.0122500	.0329894	.0079001
5	.0000156	.0000380	.0000120	.0172500	.0397569	.0125548
6	.0000098	.0000144	.0000053	.0203750	.0399156	.0147057
7	.0000117	.0000161	.0000076	.0310000	.0587171	.0278133
8	.0000039	.0000083	.0000048	.0181250	.0286084	.0165628
9	.0000137	.0000222	.0000164	.0595000	.1418886	.1045495
10	.0000137	.0000182	.0000163	.2841250	.4554462	.4075045

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0000371	.0001417	.0000404	.0472500	.1804813	.1208623
2	.0000254	.0000970	.0000398	.0501250	.1914630	.1270181
3	.0000176	.0000559	.0000194	.0522500	.1663165	.1223606
4	.0000176	.0000559	.0000250	.0567520	.1806467	.1269168
5	.0000195	.0000622	.0000146	.0587500	.1870066	.1267558
6	.0000156	.0000497	.0000167	.0467500	.1488095	.1319922
7	.0000059	.0000186	.0000073	.0487500	.1551757	.1334099
8	.0000215	.0000410	.0000205	.0668750	.1277215	.1255201
9	.0000195	.0000373	.0000154	.0593906	.1134275	.1348616
10	.0000117	.0000224	.0000096	.0368750	.0704259	.1031775
11	.0000156	.0000298	.0000357	.0231250	.0441654	.0689779
12	.0000137	.0000065	.0000085	.0496250	.0236941	.0702454

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0002207	.0001076		.0002207	.0003776	.0001076	.0000307

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.5965176	1.0863714	.6400068	.2970843	.7028741	.0003164	.4029453

MEAN ENERGY SCAT. TR. NT.	MEAN ENERGY REFL. NT.
.1392864	.4980310

38.03402618

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
36-S	1.00000000	.34202000	.00001010	20

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
4	.07275554	.15344820	.04182621	.04294592	.08761202
6	.18686974	.12363731	.04346886	.03890092	.03678208
8	.09577284	.07682036	.02946919	.01795951	.01888879
12	.05757785	.04282282	.00981087	.00666056	.00678543
16	.01850175	.01084785	.00268317	.00214941	.00110109
18	.00340765	.00159564	.00043209	.00022097	.00018181
20	.00170172	.00067862	.00014818	.00002826	.00002516
24	.00063697	.00022082	.00004144	.00002315	.00001578
24	.00004243	.00002692	.00000494	.00000270	.00000390

INCHES	6	7	8	9	10
4	.03265517	.09720829	.08723819	.26377953	.81776701
6	.02761052	.05804415	.02619378	.07868321	.05160614
8	.01362876	.01837293	.02788816	.02807380	.00830517
12	.00578585	.00800903	.00307227	.01284515	.00170519
16	.00085719	.00127342	.00070534	.00132838	.00007821
18	.00015459	.00018277	.00004071	.00022817	.00001589
20	.00005519	.00004777	.00000466	.00010873	.00000795
24	.00001760	.00001863	.00000854	.00004397	.00000780
24	.00000492	.00000114	.00000245	.00000935	.00000289

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
4	.06868178	.05569649	.02280842	.01951231	.02475209
6	.03997068	.03559204	.01761947	.01023352	.01090578
8	.02538501	.02826892	.00730805	.00445118	.00553438
12	.00939641	.00659348	.00172605	.00177646	.00075609
16	.00221149	.00105238	.00028644	.00018915	.00014035
18	.00107655	.00043713	.00011706	.00002064	.00001104
20	.00036704	.00015253	.00002848	.00001826	.00000854
24	.00004243	.00002692	.00000494	.00000270	.00000390

INCHES	6	7	8	9	10
4	.01110670	.04507130	.01874155	.05937977	.03888782
6	.00795788	.00937861	.02410464	.02258839	.00817938
8	.00346443	.00621830	.00198320	.01085001	.00170519
12	.00062935	.00083261	.00051540	.00114457	.00006358
16	.00012169	.00013816	.00004071	.00021508	.00001589
18	.00003667	.00002952		.00009246	.00000795
20	.00001374	.00001085	.00000673	.00003899	.00000609
24	.00000492	.00000114	.00000245	.00000935	.00000289

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	11.11046136	2.92380562	4.50182900
4	.21699999	.36463825	.57654173		.67179671
6	.11600000	.18643040	.25074870		.33517952
8	.05974993	.09516867	.10506146		.15507502
12	.01424998	.02343401	.02062382		.03952582
16	.00262496	.00441134	.00372782		.00646030
18	.00110155	.00182902	.00144189		.00280622
20	.00042572	.00065126	.00055321		.00103471
24	.00006933	.00010164	.00010340		.00010164

RUN NUMBER 36-8	HISTORIES 1000	ENERGY SET 2D	ANGLE SET 0°	SLANT MFP 60.5719932
INC. ENERGY 1.0000000	COS. THETA .3420200	CUTOFF EGY .0000101	INC.FLX/NT 2.9238056	INC.DSE/NT 11.1104613

SLAB CONFIGURATION NEVADE TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO. FLX. REFL. FACTOR	DOSE REFL. FACTOR
1	.0000283	.0000144	.0000025	.0462656	.0248838	.0041910
2	.0000195	.0000088	.0000014	.0737500	.0524824	.0081486
3	.0000039	.0000017	.0000003	.0234375	.0143054	.0026729
4	.0000019	.0000011	.0000002	.0201875	.0146884	.0035175
5	.0000019	.0000013	.0000004	.0372500	.0299651	.0094627
6	.0000029	.0000013	.0000005	.0190625	.0111687	.0041148
7	.0000010	.0000004	.0000002	.0451250	.0332472	.0157487
8	.0000019	.0000008	.0000005	.0390625	.0298372	.0172742
9	.0000059	.0000041	.0000031	.0851250	.0902179	.0664763
10	.0000019	.0000010	.0000009	.3170000	.2796927	.2502513

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0000186	.0000354	.0000035	.0791328	.1511322	.0324405
2	.0000108	.0000205	.0000019	.0977500	.1866883	.0436908
3	.0000068	.0000131	.0000015	.0755078	.1442090	.0319674
4	.0000156	.0000298	.0000029	.0705000	.1346448	.0310339
5	.0000068	.0000131	.0000030	.0691250	.1320187	.0630723
6	.0000039	.0000075	.0000015	.0533125	.1018192	.0462441
7	.0000029	.0000056	.0000007	.0451875	.0863016	.0317181
8	.0000019	.0000037	.0000004	.0732500	.1398969	.0582195
9	.0000010	.0000019	.0000006	.0350625	.0669643	.1004341
10				.0231875	.0442848	.0698636
11				.0321875	.0614735	.0766645
12	.0000010	.0000019	.0000028	.0520625	.0994318	.1439442

(S+U) NO. TRAN. FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT. NO. FLX. TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0000693	.0000100		.0000693	.0000349	.0000100	.0000078

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.7062656	.5804887	.3818579	.3688639	.6311154	.0003135	.2933516

38.03405236	MEAN ENERGY SCAT. TR. NT. .1128083	MEAN ENERGY REFL. NT. .5222737
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RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
16-S	2.00000000	1.00000000	.00001010	

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
4	.09622909	.07675309	.04099129	.04018430	.02498371
6	.27994421	.23440936	.11976989	.07510426	.10810831
8	.23986736	.22864772	.16421709	.10043202	.04586112
12	.24669333	.19317888	.08040650	.07108675	.04447662
16	.07992512	.05971078	.03859154	.01924042	.01037029
18	.04267576	.01953681	.01214070	.01266102	.00811781
20	.01953659	.01712679	.00832380	.00352380	.00367564
24	.01291702	.00869122	.00291778	.00238184	.00119369
24	.00212695	.00099142	.00050320	.00048146	.00024666

INCHES	6	7	8	9	10
4	.02028681	.06760822	.04129490	.12673832	.22693379
6	.05067202	.12164823	.12117987	.18236765	.26018844
8	.04633419	.11777241	.11199523	.11389233	.20580961
12	.04144344	.09707166	.04545660	.08814373	.11295210
16	.00555088	.02040249	.02900678	.03127708	.04811595
18	.00357130	.00819525	.00381192	.01745759	.01251920
20	.00197780	.00558456	.00189414	.00588323	.00734601
24	.00074230	.00245403	.00172068	.00276763	.00374669
24	.00021748	.00029508	.00026824	.00086579	.00065706

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
4	.04792037	.05941168	.02803261	.02890566	.04681339
6	.06702326	.05205145	.06730239	.04522695	.02358055
8	.07130907	.07369851	.03064466	.03499935	.01665122
12	.02889566	.02229969	.02295016	.00781066	.00468454
16	.01441708	.01002646	.00751692	.00729488	.00568745
18	.00753981	.00958736	.00435850	.00199315	.00207726
20	.00700611	.00490293	.00169422	.00097882	.00041510
24	.00212695	.00099142	.00050320	.00048146	.00024666

INCHES	6	7	8	9	10
4	.02869093	.05532154	.04594651	.10321652	.17358334
6	.01814901	.05532576	.04141684	.06923280	.12038997
8	.02617108	.04230672	.02835057	.05991931	.08506935
12	.00264707	.01086746	.01172927	.01770093	.03975671
16	.00105212	.00639014	.00211706	.00948317	.00812936
18	.00053651	.00327181	.00088986	.00297372	.00525410
20	.00036294	.00160124	.00106628	.00173064	.00324521
24	.00021748	.00029508	.00026824	.00086579	.00065706

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	1.00000000	4.29230769	1.00000000	1.71604255
4	.60299999	.85984255	2.76610756	.24200001	1.79539225
6	.46099999	.67869896	1.84948575	.11900000	1.49382908
8	.32399999	.52711985	1.30514931	.05800001	1.07890962
12	.12600000	.18334215	.44333641	.01400000	.35619133
16	.04524998	.07511464	.15221624	.00300000	.14368737
18	.02574999	.03948209	.07166781	.00100001	.07587236
20	.01393748	.02300348	.03999936		.03953290
24	.00421873	.00665337	.01183241		.00665337

RUN NUMBER 16-8	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 2541	SLANT MFP 8.5139298
INC. ENERGY 2.0000000	COS. THETA 1.0000000	CUTOFF EGY .0000101	INC.FLX/NT 1.0000000	INC.DSE/NT 4.0999999

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN. FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.0012500	.0022722	.0003546	.0485625	.0962291	.0150211
2	.0006563	.0010293	.0001481	.0400000	.0767531	.0110450
3	.0003594	.0005401	.0001067	.0230000	.0409913	.0080983
4	.0002969	.0004889	.0001550	.0210000	.0401843	.0127413
5	.0001719	.0002859	.0001255	.0180000	.0249837	.0109685
6	.0001094	.0002210	.0001186	.0110000	.0202868	.0108856
7	.0001875	.0003398	.0002321	.0342500	.0676082	.0461715
8	.0002031	.0002670	.0002214	.0220000	.0412949	.0342446
9	.0005469	.0009303	.0008849	.0630000	.1267383	.1205560
10	.0004375	.0006735	.0006735	.1390000	.2269338	.2269338

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0006406	.0024470	.0010972	.0390000	.1489687	.1071818
2	.0003438	.0013130	.0006487	.0430000	.1642475	.1192876
3	.0005313	.0016910	.0007020	.0442500	.1408518	.1029424
4	.0003125	.0009947	.0005354	.0322500	.1026547	.0774795
5	.0004063	.0012931	.0007816	.0410625	.1307057	.1037939
6	.0004063	.0012931	.0008471	.0390000	.1241406	.1116683
7	.0001406	.0004476	.0003507	.0300000	.0954927	.0861681
8	.0004688	.0008953	.0005775	.0352500	.0673224	.0802239
9	.0002813	.0005371	.0004293	.0290000	.0553858	.0678487
10	.0002188	.0004178	.0003753	.0290000	.0553858	.0854583
11	.0002188	.0004178	.0004693	.0230000	.0439266	.0744481
12	.0002500	.0001194	.0002785	.0350000	.0167112	.0595286

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0042187	.0030204		.0042187	.0070480	.0030204	.0009795

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.4198125	.7620035	.4966655	.1830878	.8159258	.0000625	.5759063

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
41.04102618	.4643678	.8722362

RUN NUMBER	INC.ENERGY	COS. THETA	CUTOFF EGY.	ENERGY SET
25-S	2.00000000	.34202000	.00001010	2C

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

SCATTERED FLUX PER NEUTRON AT REGION BDS. IN ENERGY GRPS.					
INCHES	1	2	3	4	5
4	.07592318	.08651319	.06731030	.09100320	.06904233
6	.23148384	.21039564	.08484520	.09910209	.06771047
8	.16307107	.13554524	.07093723	.05918514	.03838912
12	.12227214	.07612675	.03648126	.03285229	.01649653
16	.04064327	.02738182	.01173132	.00865100	.00617737
18	.01135173	.00857359	.00326368	.00238685	.00138612
20	.00698645	.00393450	.00162182	.00125529	.00072319
24	.00339059	.00202620	.00095898	.00062323	.00043502
24	.00045665	.00029519	.00011626	.00008054	.00008480

INCHES	6	7	8	9	10
4	.03456718	.11314309	.10489466	.17242952	.62839399
6	.03396898	.07542197	.06367150	.15054955	.21237609
8	.02402785	.03636287	.05660332	.06150472	.07462194
12	.01207203	.02848887	.02198662	.02693390	.03818133
16	.00394709	.00860039	.00481316	.00713717	.00886826
18	.00079737	.00218555	.00144563	.00186587	.00258300
20	.00047669	.00072952	.00072946	.00090468	.00140644
24	.00010609	.00047246	.00036460	.00065962	.00066812
24	.00001592	.00010844	.00007228	.00010348	.00017977

SCATTERED FLUX TRANS. PER NT. IN EGY. GRPS. VS. THICKNESS					
INCHES	1	2	3	4	5
4	.06380927	.06487029	.04602921	.03136549	.03016133
6	.06333944	.05426022	.03037071	.03099533	.02335316
8	.04295139	.03544108	.01963022	.01696144	.00972165
12	.01573301	.01373363	.00673844	.00474461	.00335644
16	.00555098	.00416973	.00169929	.00139973	.00095772
18	.00318195	.00207306	.00087870	.00066002	.00046046
20	.00170936	.00099482	.00045840	.00034935	.00024287
24	.00045665	.00029519	.00011626	.00008054	.00008480

INCHES	6	7	8	9	10
4	.02250788	.04410207	.03297106	.09338152	.17600470
6	.01045518	.02069834	.04304907	.04076638	.06342161
8	.00627901	.01888427	.01561113	.01795269	.03324922
12	.00184405	.00568732	.00290751	.00453851	.00751950
16	.00046021	.00153899	.00093302	.00119064	.00230833
18	.00032323	.00045519	.00054351	.00056486	.00125602
20	.00007880	.00027495	.00023665	.00042197	.00061556
24	.00001592	.00010844	.00007228	.00010348	.00017977

INCHES	TOTAL NO. TRANS./NT.	TOTAL FLUX TRANS./NT.	TOTAL DOSE TRANS./NT.	UNC.NO.FLUX TRANS./NT.	TTL.FLX/NT. REGION BDS.
	1.00000000	2.92380562	12.54987337	2.92380562	4.28476717
4	.36499999	.64905991	1.78657768	.04385710	1.27338242
6	.22399999	.38363326	.84460666	.00292383	.72317232
8	.13212485	.21668211	.43236539		.41189171
12	.04224995	.06680305	.11458599		.12795086
16	.01290620	.02020865	.03366996		.03583939
18	.00656247	.01039699	.01692391		.01876805
20	.00341979	.00538273	.00891692		.00970490
24	.00095699	.00151332	.00255643		.00151332

RUN NUMBER 28-8	HISTORIES 1000	ENERGY SET 2C	ANGLE SET 0φ	SLANT MFP 24.8930766
INC. ENERGY 2.0000000	COS. THETA .3420200	CUTOFF EGY .0000101	INC.FLX/NT 2.9238056	INC.DSE/NT 11.9876029

SLAB CONFIGURATION NEVADA TEST SITE SOIL (100% SATURATED)

REGION THICKNESSES (CENTIMETERS)					
10.1600	5.0800	5.0800	10.1600	10.1600	5.0800
5.0800	10.1600				

NUMBER OF SCATTERED NEUTRONS VS. ENERGY

ENERGY GROUPS	NO. TRAN. FACTOR	NO. FLUX TRAN.FACTOR	DOSE TRAN. FACTOR	NO. REFL. FACTOR	NO.FLX.REFL FACTOR	DOSE REFL. FACTOR
1	.0002852	.0001639	.0000256	.0381719	.0259672	.0040534
2	.0001816	.0001102	.0000159	.0542656	.0295892	.0042579
3	.0000742	.0000419	.0000083	.0403906	.0230215	.0045481
4	.0000469	.0000262	.0000083	.0470000	.0311249	.0098689
5	.0000430	.0000278	.0000122	.0261250	.0236138	.0103671
6	.0000117	.0000058	.0000031	.0140156	.0118227	.0063439
7	.0000723	.0000384	.0000262	.0481406	.0386972	.0264274
8	.0000410	.0000299	.0000248	.0425156	.0358761	.0297509
9	.0000684	.0000349	.0000332	.0651406	.0589743	.0560975
10	.0001328	.0000660	.0000660	.2402500	.2149233	.2149233

NUMBER OF SCATTERED NEUTRONS VS. ANGLE

ANGULAR SECTORS	NO. TRAN. FACTOR	NO. TRAN. FACT/STER	DOSE TRAN. FACT/STER	NO. REFL. FACTOR	NO. REFL. FACT/STER	DOSE REFL. FACT/STER
1	.0002402	.0004588	.0000779	.0668750	.1277215	.0260698
2	.0001406	.0002686	.0000534	.0896562	.1712304	.0499014
3	.0001191	.0002276	.0000409	.0721406	.1377781	.0377630
4	.0001172	.0002238	.0000375	.0691562	.1320784	.0344688
5	.0000684	.0001305	.0000367	.0503750	.0962090	.0424085
6	.0000644	.0001231	.0000271	.0396562	.0757377	.0341583
7	.0000684	.0001305	.0000305	.0378906	.0723656	.0326255
8	.0000840	.0001604	.0000402	.0725000	.1384645	.0683069
9	.0000137	.0000261	.0000131	.0333750	.0637414	.1001295
10	.0000156	.0000298	.0000305	.0220000	.0420168	.0738066
11	.0000098	.0000187	.0000173	.0222500	.0424943	.0619516
12	.0000156	.0000298	.0000218	.0401406	.0766628	.1386361

(S+U) NO. TRAN.FACT.	(S+U) DOSE TRAN. FACT.	UNSCAT. NO. FACTOR	SCAT. NO. TRAN. FACT.	SCAT.NO.FLX TRAN. FACT.	SCAT. DOSE TRAN. FACT.	SCAT. EGY. TRAN. FACT.
.0009570	.0002236		.0009570	.0005450	.0002236	.0002150

NUMBER REFL. FACT.	NO. FLUX REFL. FACT.	DOSE REFL. FACT.	ENERGY REFL. FACT.	ENERGY ABS. FACTOR	NUMBER ABS. FACTOR	NO. CUTOFF FACTOR
.6160156	.4936103	.3666385	.2967976	.7029767	.0018320	.3811953

	MEAN ENERGY SCAT.TR.NT.	MEAN ENERGY REFL. NT.
41.04105236	.4493160	.9636041

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