Errata for Nevada Test Site Radionuclide Inventory, Bowen *et.al.*, LA-13859-MS

The data for ^{234}U were found to be incorrect in Tables 5 and 6 on pages 21 and 22 of the document, Nevada Test Site Radionuclide Inventory, Bowen *et.al.*, LA-13859-MS. The problem was found in the Access database while doing work with the uranium isotopes. The problem was as follows: The uranium isotopes have two sources: the test device and the soil. The uranium content of the soil and device for each test was calculated. Total uranium was defined as the sum of ^{234}U from the soil and ^{234}U from the test device. In the summation of the ^{234}U in the Access database, the sum was inadvertently defined as ^{234}U from the device plus ^{234}U from the device. This led to incorrect values for both atoms and curies of ^{234}U in all of the principal geographic test centers. It also caused very small errors (in the third decimal place) for the total atoms in Pahute Mesa-19 and Yucca Flat-above test centers

The formula in the database has been corrected for ^{234}U and is now as follows:
^{234}U total is equal to ^{234}U from test device plus ^{234}U from soil.

The corrected tables are attached, with the changed values highlighted in blue.

TABLE V

Radionuclide Summary in **Curies** Decay Corrected to September 23, 1992
for the Six Principal Geographic Test Centers

Radio-nuclide	Frenchman Flat	Pahute Mesa-19	Pahute Mesa-20	Rainer Mesa Shoshone Mt	Yucca Flat - Above	Yucca Flat - Below	**Total**
H-3	1.744E+05	1.778E+07	5.903E+07	7.645E+05	1.472E+07	3.316E+07	**1.256E+08**
C-14	6.653E+01	2.193E+02	4.693E+02	1.102E+02	1.137E+03	8.389E+02	**2.841E+03**
Al-26	7.035E-03	8.975E-04	8.370E-03	4.548E-04	5.573E-02	3.595E-02	**1.084E-01**
Cl-36	8.907E+00	9.108E+01	1.573E+02	1.130E+01	1.163E+02	2.309E+02	**6.158E+02**
Ar-39	6.166E+00	6.398E+02	1.247E+03	3.663E+01	3.204E+02	9.551E+02	**3.205E+03**
K-40	1.649E+00	1.588E+02	3.171E+02	9.233E+00	8.219E+01	2.422E+02	**8.112E+02**
Ca-41	6.542E+01	5.050E+02	1.273E+03	7.063E+01	8.545E+02	1.661E+03	**4.429E+03**
Ni-59	1.634E+00	1.596E+01	2.976E+01	2.021E+00	2.139E+01	4.265E+01	**1.134E+02**
Ni-63	1.679E+02	1.724E+03	3.126E+03	2.118E+02	2.334E+03	5.229E+03	**1.279E+04**
Kr-85	1.285E+02	4.981E+04	5.706E+04	1.344E+03	1.137E+04	5.805E+04	**1.778E+05**
Sr-90	1.879E+03	5.804E+05	6.835E+05	1.592E+04	1.499E+05	7.479E+05	**2.179E+06**
Zr-93	1.118E-01	1.887E+01	2.372E+01	7.990E-01	6.852E+00	2.607E+01	**7.641E+01**
Nb-93m	0.000E+00	2.969E+03	5. I00E+03	2.667E+00	6.246E+02	6.730E+03	**1.543E+04**
Nb-94	6.968E-01	7.938E+01	9.852E+01	9.248E-01	2.296E+01	1.975E+02	**3.999E+02**
Tc-99	1.167E+00	1.344E+02	1.782E+02	7.817E+00	6.153E+01	1.875E+02	**5.706E+02**
Pd-107	1.949E-02	5.957E-01	1.002E+00	1.164E-01	7.634E-01	9.226E-01	**3.420E+00**
Cd-113m	2.991E+00	5.017E+02	7.469E+02	2.545E+01	1.566E+02	4.994E+02	**1.933E+03**
Sn-121m	1.646E+01	1.782E+03	2.667E+03	1.081E+02	6.738E+02	1.918E+03	**7.165E+03**
Sn-126	8.193E-02	8.085E+00	1.188E+01	5.200E-01	3.402E+00	9.161E+00	**3.313E+01**
I-129	4.542E-03	4.153E-01	5.596E-01	2.920E-02	2.079E-01	5.422E-01	**1.759E+00**
Cs-135	1.362E-01	1.393E+01	1.838E+01	8.966E-01	6.926E+00	1.970E+01	**5.997E+01**
Cs-137	5.045E+03	6.971E+05	8.957E+05	3.773E+04	2.919E+05	9.299E+05	**2.857E+06**
Sm-151	2.949E+02	2.307E+04	3.568E+04	1.939E-i-03	1.388E+04	3.189E+04	**1.068E+05**
Eu-150	9.859E-03	7.805E+01	1.069E+03	2.057E-03	1.354E+04	1.099E+02	**1.479E+04**
Eu-152	7.569E+02	l.151E+04	2.970E+04	1.703E+03	3.634E+04	7.083E+04	**1.508E+05**
Eu-154	2.622E+02	7.099E+03	1.327E+04	9.090E+02	2.968E+04	5.480E+04	**1.060E+05**
Ho-166m	2.024E+00	3.083E+01	2.892E+01	3.354E+00	2.665E+01	5.514E+01	**1.469E+02**
Th-232	1.196E-01	1.147E+0l	2.319E+01	6.757E-01	5.969E+00	1.752E+01	**5.895E+01**
U-232	l.027E-02	8.730E+01	1.738E+02	9.188E-01	9.004E+01	3.690E+02	**7.211E+02**
U-233	1.334E-03	6.508E+01	1.176E+02	1.107E+01	1.202E+02	1.525E+02	**4.664E+02**
U-234	2.748E-01	7.680E+01	7.011E+01	5.516E+00	8.528E+01	1.495E+02	**3.875E+02**
U-235	8.570E-03	1.293E+00	l.343E+00	1.717E-01	2.557E+00	3.220E+00	**8.593E+00**
U-236	2.995E-03	2.213E+00	2.647E+00	1.483E-01	9.123E-01	3.458E+00	**9.381E+00**
U-238	9.507E-02	6.826E+00	1.250E+01	6.919E-0l	8.674E+00	1.570E+01	**4.449E+01**
Np-237	1.379E-02	1.196E+0l	2.476E+01	6.027E-02	1.140E+00	1.072E+01	**4.865E+01**
Pu-238	3.232E+02	2.857E+03	4.768E+03	2.659E+03	1.774E+04	1.115E+04	**3.950E+04**
Pu-239	1.415E+03	7.684E+03	1.262E+04	1.085E+04	9.997E+04	2.746E+04	**1.600E+05**
Pu-240	3.489E+02	2.041E+03	4.405E+03	2.763E+03	2.532E+04	7.045E+03	**4.193E+04**
Pu-241	4.408E+03	2.946E+04	6.952E+04	4.315E+04	3.415E+05	1.034E+05	**5.914E+05**
Pu-242	2.882E-02	1.367E+00	2.279E+00	3.962E-01	7.485E+00	4.621E+00	**1.618E+01**
Am-241	5.022E+02	1.299E+03	3.567E+03	2.555E+03	2.309E+04	6.088E+03	**3.710E+04**
Am-243	0.000E+00	1.203E-02	1.772E-01	7.900E-01	2.682E+00	3.416E+00	**7.078E+00**
Cm-244	0.000E+00	1.190E+03	2.197E+03	4.961E+01	1.586E+03	2.506E+03	**7.529E+03**
Total	**1.901E+05**	**1.920E+07**	**6.086E+07**	**8.867E+05**	**1.578E+07**	**3.523E+07**	**1.321E+08**

TABLE VI

Radionuclide Summary in **Atoms** Decay Corrected to September 23, 1992
for the Six Principal Geographic Test Centers

Radio-nuclide	Frenchman Flat	Pahute Mesa-19	Pahute Mesa-20	Rainer Mesa Shoshone Mt	Yucca Flat - Above	Yucca Flat - Below	**Total**
H-3	3.620E+24	3.689E+26	1.225E+27	1.586E+25	3.055E+26	6.881E+26	**2.607E+27**
C-14	6.405E+23	2.111E+24	4.518E+24	1.061E+24	1.094E+25	8.076E+24	**2.735E+25**
Al-26	8.413E+21	1.073E+21	1.001E+22	5.439E+20	6.665E+22	4.300E+22	**1.297E+23**
Cl-36	4.516E+24	4.618E+25	7.973E+25	5.730E+24	5.899E+25	1.171E+26	**3.122E+26**
Ar-39	2.794E+21	2.899E+23	5.652E+23	1.660E+22	1.452E+23	4.328E+23	**1.452E+24**
K-40	3.527E+27	3.398E+29	6.783E+29	1.975E+28	1.758E+29	5.181E+29	**1.735E+30**
Ca-41	1. 135E+25	8.763E+25	2.208E+26	1.225E+25	1.483E+26	2.882E+26	**7.685E+26**
Ni-59	2.092E+23	2.043E+24	3.810E+24	2.587E+23	2.738E+24	5.460E+24	**1.452E+25**
Ni-63	2.828E+22	2.904E+23	5.266E+23	3.568E+22	3.932E+23	8.808E+23	**2.155E+24**
Kr-85	2.329E+21	9.028E+23	1.034E+24	2.437E+22	2.060E+23	1.052E+24	**3.222E+24**
Sr-90	9. 109E+22	2.8 14E+25	3.3 14E+25	7.7 17E+23	7.265E+24	3.626E+25	**1 .057E+26**
Zr-93	2.825E+23	4.767E+25	5.993E+25	2.019E+24	1.731E+25	6.587E+25	**1.931E+26**
Nb-93m	0.000E+00	8.053E+22	1.383E+23	7.234E+19	1.694E+22	1.825E+23	**4.184E+23**
Nb-94	2.347E+22	2.674E+24	3.3 19E+24	3.1 16E+22	7.734E+23	6.652E+24	**1.347E+25**
Tc-99	4.189E+23	4.821E+25	6.394E+25	2.805E+24	2.208E+25	6.727E+25	**2.047E+26**
Pd-107	2.135E+23	6.523E+24	1.097E+25	1.274E+24	8.359E+24	1.010E+25	**3.744E+25**
Cd-113m	7.104E+19	1.192E+22	1.774E+22	6.044E+20	3.719E+21	1.186E+22	**4.591E+22**
Sn-121m	1.525E+21	1.651E+23	2.470E+23	1.001E+22	6.243E+22	1.777E+23	**6.638E+23**
Sn-126	3.450E+22	3.405E+24	5.002E+24	2.190E+23	1.433E+24	3.858E+24	**1.395E+25**
I-129	1.201E+23	1.098E+25	1.480E+25	7.723E+23	5.498E+24	1.434E+25	**4.65 IE+25**
Cs-135	5.277E+23	5.397E+25	7.120E+25	3.474E+24	2.683E+25	7.633E+25	**2.323E+26**
Cs-137	2.555E+23	3.53 1E+25	4.537E+25	1.91 1E+24	1.478E+25	4.7 10E+25	**1.447E+26**
Sm-151	4.471E+22	3.498E+24	5.409E+24	2.940E+23	2.105E+24	4.835E+24	**1.619E+25**
Eu-150	5.979E+17	4.733E+21	6.483E+22	1.247E+17	8.209E+23	6.664E+21	**8.972E+23**
Eu-152	1.726E+22	2.626E+23	6.774E+23	3.885E+22	8.288E+23	1.615E+24	**3.440E+24**
Eu-154	3.796E+21	1.028E+23	1.921E+23	1.316E+22	4.297E+23	7.932E+23	**1.535E+24**
Ho-166m	4.092E+21	6.231E+22	5.846E+22	6.781E+21	5.387E+22	1.1 15E+23	**2.970E+23**
Th-232	2.821E+27	2.706E+29	5.468E+29	1.594E+28	1.408E+29	4.133E+29	**1.390E+30**
U-232	1.208E+18	1.026E+22	2.044E+22	1.080E+20	1.059E+22	4.338E+22	**8.478E+22**
U-233	3.578E+20	1.745E+25	3.154E+25	2.969E+24	3.223E+25	4.090E+25	**1.251E+26**
U-234	1.139E+23	3.183E+25	2.905E+25	2.286E+24	3.534E+25	6.194E+25	**1.606E+26**
U-235	1.016E+25	1.533E+27	1.592E+27	2.036E+26	3.032E+27	3.819E+27	**1.019E+28**
U-236	1.181E+23	8.730E+25	1.044E+26	5.851E+24	3.599E+25	1.364E+26	**3.701E+26**
U-238	7.159E+26	5.140E+28	9.41 1E+28	5.210E+27	6.531E+28	1.182E+29	**3.350E+29**
Np-237	4.969E+22	4.310E+25	8.923E+25	2.172E+23	4.108E+24	3.863E+25	**1.753E+26**
Pu-238	4.775E+22	4.220E+23	7.043E+23	3.929E+23	2.621E+24	1.647E+24	**5.835E+24**
Pu-239	5.744E+25	3.1 19E+26	5. 123E+26	4.406E+26	4.058E+27	1.1 15E+27	**6.495E+27**
Pu-240	3.855E+24	2.256E+25	4.867E+25	3.053E+25	2.798E+26	7.785E+25	**4.633E+26**
Pu-241	1.069E+23	7.145E+23	1.686E+24	1.047E+24	8.284E+24	2.508E+24	**1.435E+25**
Pu-242	1.821E+22	8.637E+23	1.440E+24	2.503E+23	4.728E+24	2.919E+24	**1.022E+25**
Am-241	3.661E+23	9.468E+23	2.600E+24	1.863E+24	1.683E+25	4.437E+24	**2.704E+25**
Am-243	0.000E+00	1.493E+20	2.200E+21	9.807E+21	3.330E+22	4.241E+22	**8.787E+22**
Cm-244	0.000E+00	3.629E+22	6.700E+22	1.513E+21	4.836E+22	7.641E+22	**2.296E+23**
Total	**7.158E+27**	**6.645E+29**	**1.324E+30**	**4.164E+28**	**3.899E+29**	**1.057E+30**	**3.483E+30**