Kennecott Uranium Company
42 Miles NW of Rawlins
P.O. Box 1500
Rawlins, WY 82301-1500
USA
T +1 (307) 328 1476
F +1 (307) 324 4925

March 29, 2016
Via E-mail and Courier

Ms. Andrea Koch, Deputy Director
Division of Decommissioning, Uranium Recovery, & Waste Programs
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
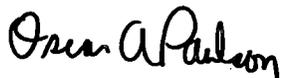Rockville, Maryland 20852-2738

Dear Ms. Koch:

Subject: **Kennecott Uranium Company - Sweetwater Uranium Project – Docket Number: 40-8584 - Source Material License SUA-1350 – Response to the Third Request in the Safety Review Section of the Set of Requests for Additional Information (RAIs) dated February 12, 2016.**

Kennecott Uranium Company, in a letter dated March 9, 2016 to the Nuclear Regulatory Commission (NRC), committed to responding to the third Request for Additional Information (RAI) in the Safety Review Section requesting a hard copy of the MILDOS input parameters by April 1, 2016.

Enclosed with this cover letter are hard copies of the two (2) input parameter files *Sweet.mil* and *SweetRaw.mil*. Also included is a hard copy of the output file containing Radon-222 concentration and dose data for the four (4) locations. The *Sweet.mil* file uses Sweetwater Uranium Project wind data while the *SweetRaw.mil* file uses Rawlins, Wyoming wind data. The hard copies are labeled.

If you have any questions please do not hesitate to contact me.

Sincerely yours,

Oscar Paulson
Facility Supervisor

Cc: James Webb – Project Manager (2)
       Director – NRC – DRSS – Region IV
       Rich Atkinson – Cedar Mountain Ventures, LLC.

NMSS01

MILDOS Input File: SweetRaw.mil

```
&INDATA
 IFTODO = 10*1,
 JC = 0, 3*1, 2*0, 1, 0, 1, 0,
 FRADON = 3*0, 1,
 IPACT = 1, 9*0,
 NSORCE = 1 ,
 PACT = 12*0,
 QAJUST = 1, 9*1,.1, 9*1, 180*0,
 SORCE = 3*0, .1574487, 5*0, 2001, 1, 109*0,
 FAS = 3*-1,
 SRNS = 8.97, 2*0,
 HDP =50,
 LOGLNR = 1 ,
 PTSZ = 1.5, 3, 7.7, 54, .3,
 PTSZFC = 0, 1, 2*0, 1, 5*0, .3, .7,
 IPSOL = 2*3, 2*2, 1, 2*2,
 FREQ = .00071, .00053, .00062, .00063, .00127, .00071, .00106,
  .00009, .00099, .00063, .00162, .00134, .00212, .00071, .00198,
  .00018, .00009, .00007, .00008, .00007, .00013, .00009, .00014,
  .00001, .0001, .00007, .00017, .00016, .00027, .00009, .00022,
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  .00121, .0025, .002, .00173, .00074, .00081, .00066, .00221,
  .00249, .00302, .00186, .00172, .00064, .00027, .00023, .00045,
  .00043, .00089, .00073, .00061, .00024, .00025, .00022, .00086,
  .00105, .00121, .00073, .00065, .00024, .00016, .00015, .00018,
  2*.00023, .00022, .00011, .0001, .00013, .00011, .00065, .00098,
  .00103, .00059, .00039, .00022, 0, 15*0, 0, 15*0, 0, 15*0, .00072,
  .00037, .00091, .00052, .00106, .00107, .00109, .0005, .00082,
  .0007, .00223, .00255, .00241, .00087, .00099, .00052, .00039,
  .00024, .00055, .00027, .00064, .00065, .0007, .00032, .00047,
  .00041, .00134, .00158, .00145, .00056, .00062, .0003, .00089,
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  .00017, .00018, .00023, .00005, .00001, .00003, .00006, .00031,
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  .00056, .00035, .00008, 0, 0, 7*0, .00002, .00027, .00019, .00023,
  .00011, .00003, 2*0, .00165, .0009, .00159, .00112, .00131, .00047,
  .00048, .00027, .00052, .00031, .0014, .00233, .00276, .00072,
  .00118, .00088, .00178, .0009, .00173, .00119, .00152, .00062,
  .00064, .00025, .00068, .00037, .00187, .0028, .00293, .00104,
  .00134, .00091, .00456, .00262, .00453, .00482, .00606, .0019,
  .00141, .00078, .00166, .00215, .01209, .02565, .02316, .0062,
  .00461, .00294, .00449, .00333, .00601, .00638, .00753, .00146,
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FFORP = 0.5 ,
FHAYI = 0.5 ,
FHAYP = 0.5 ,
IADD = 2 ,
NSTEP =1,
TSTART =2015,
FPR = 3*0,
PAJUST = 1, 9*1,
TSTEP = 1, 2, 3, 7*5,
IPOP = 192*0,
XRECEP =-.74,-.05, 0, .69, 1.09, 139*0,
IRTYPE = 2*10, 46*0,
&END

Impoundment
Security Trailer
Air Station 4

&ISLEND

1
4620
1920
60
900
660
900
2400
360
```

MILDOS Input File: Sweet.mil

```
&INDATA
 IFTODO = 10*1,
 JC = 0, 3*1, 2*0, 1, 0, 1, 0,
 FRADON = 3*0, 1,
 IPACT = 1, 9*0,
 NSORCE = 1 ,
 PACT = 12*0,
 QAJUST = 1, 9*1, 1, 9*1, 180*0,
 SORCE = 3*0, .1574487, 5*0, 2001, 1, 109*0,
 FAS = 3*-1,
 SRNS = 8.97, 2*0,
 HDP = 50 ,
 LOGLNR = 1 ,
 PTSZ = 1.5, 3, 7.7, 54, .3,
 PTSZFC = 0, 1, 2*0, 1, 5*0, .3, .7,
 IPSOL = 2*3, 2*2, 1, 2*2,
 FREQ = 96*0, .00006, 2*.0006, .00066, .00107, .00134, .00101,
 .00167, .00128, .00075, .00107, .0008, .0006, .00009, .00012,
 .00006, 0, .0003, .00045, .00039, .00018, .00033, .00039, .00033,
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DMA = 100 ,
FFORI = 0.5 ,
FFORP = 0.5 ,
FHAYI = 0.5 ,
FHAYP = 0.5 ,
IADD = 2 ,
NSTEP =1,
TSTART =2015,
FPR = 3*0,
PAJUST = 1, 9*1,
TSTEP = 1, 2, 3, 7*5,
IPOP = 192*0,
XRECEP =-.74,-.05, 0, .69, 1.09, 139*0,
IRTYPE = 2*10, 46*0,
&END
```

Impoundment
Security Trailer
Air Station 4

&ISLEND

1
4620
1920
60
900
660
900
2400
360

MILDOS Output File: output.txt

Rn-222 Concentration (pCi/m³)

Location	Sweetwater Sweet.mil	Rawlins Met Data SweetRaw.mil
Pond	49.0	57.9
Security Trailer	5.79	3.74
Air 4A	3.29	3.27

Dose (mrem/yr)

Location	Sweetwater Sweet.mil	Rawlins Met Data SweetRaw.mil
Pond	3.68	4.35
Security Trailer	0.44	0.28
Air 4A	0.25	0.25