From:	DeCair, Sara
To:	Hernandez-Quinones, Samuel
Cc:	Ellis, Jerry
Subject:	A few more nuclides to consider, and briefing scheduling
Date:	Wednesday, January 08, 2014 3:57:25 PM
Attachments:	MCL DRL with Bar Graph.xls

Happy New Year Sam, Jerry,

I'm finally following up on our water discussion recently!

You asked if other nuclides would be of interest, and I'm attaching a highly sensitive, internal use only chart that Lowell created back when we were reacting to accusations that our pre-proposal water PAG would be really horrible. You'll see a couple nuclides that have a slightly higher risk for a DRL linked to 500 mrem. Use that however you like, but of course don't share the chart electronically if you can avoid it. Thanks for that!

We talked about potentially briefing our ODs on the thinking so far, so that the work doesn't get too far before we have a good feeling from leadership. Can I start that scheduling process with Ginny, Mike Flynn's scheduler, and use you as OW's points of contact in addition to your OD's scheduler? If you say that's good, then I'll confirm with Lee and Jon and get the ball rolling for briefing time about a month from now.

Thanks for letting me know what you think, and I'll review this draft report now,

Sara

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DRAFT

1976 RADIONUCLIDE MCLs AND CORRESPONDING DOSE AND RISK

Nuclide	Half-life	Decay mode	**MCL (pCi/L)**	**DRL (pCi/L)**	**MCL Risk**
Co-60	5.271 y	B-	100	53,900	8.04E-05
Sr-90/Y-90	29.12 y	B-	8	6,650	2.28E-05
Cs-137/Ba-137m	30 y	B-	200	13,600	3.11E-04
Ir-192	74.02 d	B-EC	100	135,000	3.76E-05
Po-210	138.38 d	A	15	153	1.36E-03
Ra-226	1600 y	A	5	659	9.83E-05
U-238	4.47E+09 y	SF A	20	4,150	6.54E-05
Am-241	432.2 y	A	15	907	7.97E-05

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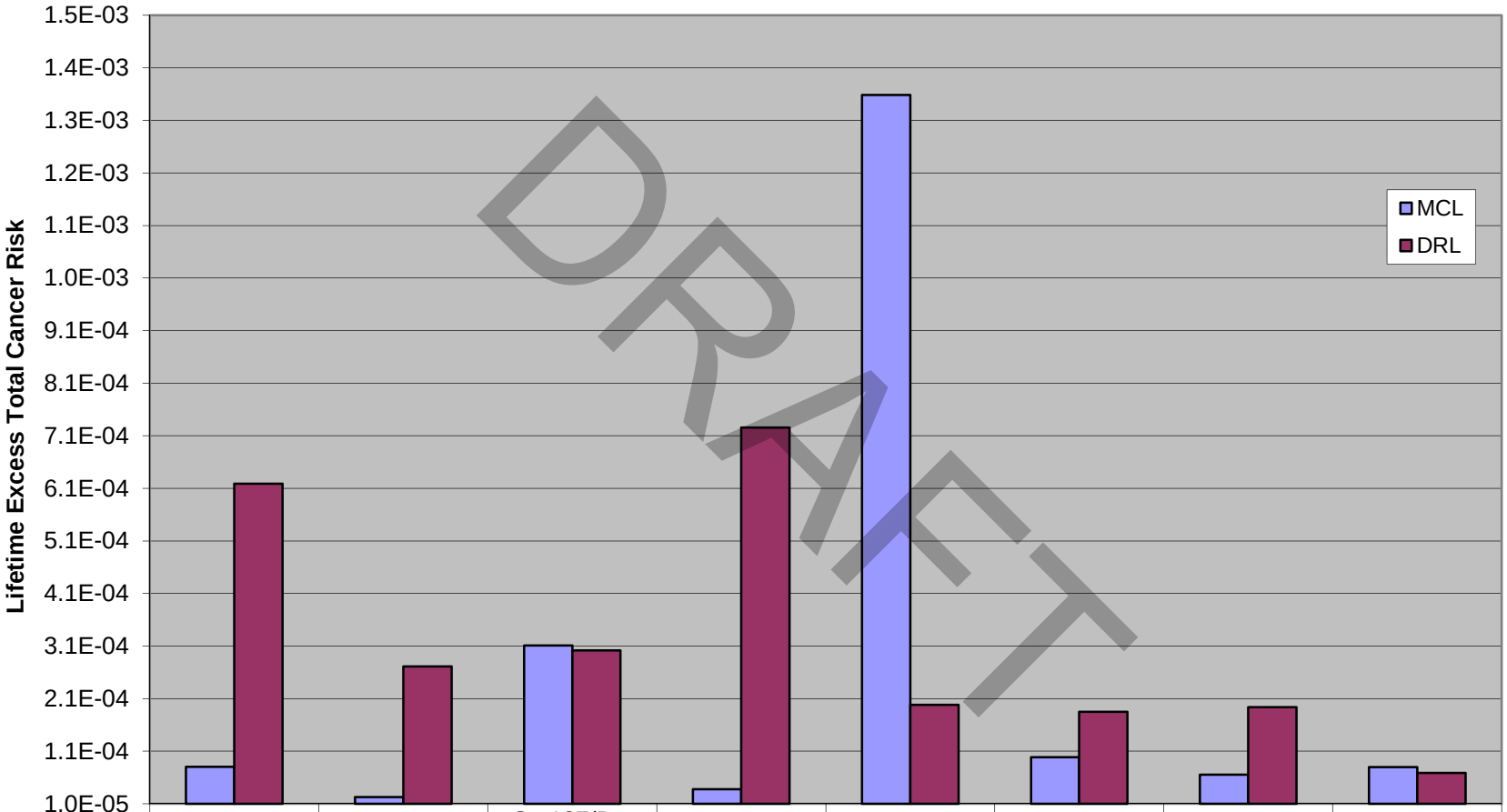
MCL vs. DRL: Cancer Risk for Selected Radionuclides



	Co-60	Sr-90/Y-90	Cs-137/Ba-137m	Ir-192	Po-210	Ra-226	U-238	Am-241
MCL	8.04E-05	2.28E-05	3.11E-04	3.76E-05	1.36E-03	9.83E-05	6.54E-05	7.97E-05
DRL	6.19E-04	2.71E-04	3.02E-04	7.26E-04	1.98E-04	1.85E-04	1.94E-04	6.88E-05