

**From:** Joyce, James [mailto:James.Joyce@em.doe.gov]  
**Sent:** Friday, June 08, 2007 4:40 PM  
**To:** Owens, Kirk W.; Roles, Gary W.  
**Subject:** FW: OSRP Recovery Forecast

Gary and Kirk,

Here's the information OSRP provided us, showing a historical breakdown of the sources recovered to date and, based on the that info, an extrapolation of the 2,250 source forecast. We're pulling together our analysis and will share our revised inventory report write up with you next week.

Jamie.

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**From:** Julia [mailto:jwhtwrth@lanl.gov]  
**Sent:** Friday, June 08, 2007 3:06 PM  
**To:** Joyce, James; Grimm, Joel  
**Cc:** mwp@lanl.gov; Dixon, George; Schelling Jr, Joe; Rigali, Mark J; Pope, Noah  
**Subject:** Re: OSRP Recovery Forecast

Jamie,

Attached please find a spreadsheet that should be what you need. For the activities, I extrapolated based on the average curies per source recovered so far. The numbers you need should be shown under the heading "Extrapolation for 2,250 Sources." My primary caveat is that the future numbers will decrease for Sr-90, as the remaining material in the US is in governmental hands, although some of it remains to be disposed. One additional note - the "Other" column shows numbers for Cm-244, Cf-252, Ir-192, Kr-85, and Ra-226. Hope this helps,

Julia

At 10:13 AM 6/8/2007, Joyce, James wrote:

Julie,

Thanks for helping us out on the sealed source projections. As we discussed this morning, we appreciate your providing us with an Excel spreadsheet on the breakdown (by individual source, nuclide, and activity) of the 2,250 sources per year forecast to be recovered by the OSRP (as referenced in the LANL Site Wide EIS). We will then use that information to estimate the projected inventory of GTCC sealed sources to analyze in the GTCC EIS. This represents a switch in approach for us in the 9th inning, and we really appreciate your providing that information to us today or Monday. As also discussed during the call, we also need a reference that we could cite on the basis for the 2,250. After we revise our inventory report to reflect this new approach/results, we will send you the relevant report chapter and would appreciate your review of that presentation. LANL/OSRP has been a great help to us on our efforts, and we really appreciate your support!

Please call me (301-903-2151), George Dixon (202-586-6519), or Joe Schelling (505-844-1792) if you have any questions regarding our request.

Thanks,

Jamie Joyce, EM-12  
301-903-2151

## **Julia Whitworth**

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2250 Sources

OSRP Data for Sources Recovered

	Sources								Curies								Average Activity per Source	11.261058
	Pu-238	Pu-239	Am-241	Sr-90	Cs-137	Co-60	Other	Total	Pu-238	Pu-239	Am-241	Sr-90	Cs-137	Co-60	Other	Total		
Domestic	2,169	456	11,004	10	395	762	278	15,074	10,993	758	13,879	74,035	8,866	63,258	39	171,828		
Intl	0	1	69	0	0	0	117	187	0	5	22	0	0	0	0	27		
<b>Total</b>	<b>2,169</b>	<b>457</b>	<b>11,073</b>	<b>10</b>	<b>395</b>	<b>762</b>	<b>395</b>	<b>15,261</b>	<b>10,993</b>	<b>763</b>	<b>13,901</b>	<b>74,035</b>	<b>8,866</b>	<b>63,258</b>	<b>39</b>	171,855		
Ratio	0.14212699	0.0299456	0.725575	0.0006553	0.025883	0.0499312	0.025883	1	0.0639696	0.0044397	0.0808872	0.4307978	0.0515897	0.3680865	0.0002296			

Extrapolation for 2,250 Sources

	Sources								Curies							
	Pu-238	Pu-239	Am-241	Sr-90	Cs-137	Co-60	Other	Total	Pu-238	Pu-239	Am-241	Sr-90	Cs-137	Co-60	Other	Total
	320	67	1633	1	58	112	58	2250	1621	112	2049	10915	1307	9326	6	25337