

## ENCLOSURE 1

## COMPARISON OF MEASUREMENTS

<u>Sample ID</u>	<u>Licensee</u>	<u>H-3, pCi/l</u>	<u>NRC</u>	<u>Resolution</u>	<u>Ratio (Licensee/NRC)</u>	<u>Comparison</u>
SN 1350 (T-2, 87R2365)	3840 ± 231	4140 ± 230		18	0.93	Agreement
SN 1351 (T-3, 87R2366)	5280 ± 248	5640 ± 240		24	0.94	Agreement
SN 1352 (T-4, 87R2358)	< 300	< 350		-	-	Not Compared
SN 1353 (T-8, 87R2259)	1190 ± 196	1070 ± 210		5	1.11	Agreement
SN 1354 (T-12, 87R2360)	121000 ± 1720	115000 ± 600		191	1.05	Agreement
SN 1355 (T-13, 87R2362)	4670 ± 241	2620 ± 230		11	1.78	Disagreement
SN 1356 (T-16, 87R2361)	1080 ± 194	1060 ± 210		5	1.02	Agreement
SN 1357 (N7A, 87R2363)	4220 ± 235	3480 ± 230		15	1.21	Agreement
SN 1358 (P15A, 87R2356)	-99.6 ± 177	< 350		-	-	Not Compared
SN 1359 (P15B, 87R2364)	14300 ± 335	15700 ± 300		52	0.91	Agreement
SN 1360 (P17A, 87R2357)	< 300	< 350		-	-	Not Compared

BB05050245 BB0428  
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## ENCLOSURE 2

### Criteria for Comparing Analytical Measurements

This enclosure provides criteria for comparing results of capability tests and verification measurements. The criteria are based on an empirical relationship which combines prior experience and the accuracy needs of this program.

In these criteria, the judgement limits denoting agreement or disagreement between licensee and NRC results are viable. This variability is a function of the NRC's value relative to its associated uncertainty, referred to in this program as "Resolution"<sup>1</sup> increases, the range of acceptable differences between the NRC and licensee values should be more restrictive. Conversely, poorer agreement between NRC and licensee values must be considered acceptable as the resolution decreases.

For comparison purposes, a ratio<sup>2</sup> of the licensee value to the NRC value for each individual nuclide is computed. This ratio is then evaluated for agreement based on the calculated resolution. The corresponding resolution and calculated ratios which denote agreement are listed in the Table below. Values outside of the agreement ratios for a selected nuclide are considered in disagreement.

$$^1\text{Resolution} = \frac{\text{NRC Reference Value for a Particular Nuclide}}{\text{Associated Uncertainty for the Value}}$$

$$^2\text{Comparison Ratio} = \frac{\text{Licensee Value}}{\text{NRC Reference Value}}$$

TABLE

Confirmatory Measurements Acceptance Criteria  
Resolutions vs. Comparison Ratio

<u>Resolution</u>	<u>Comparison Ratio for Agreement</u>
< 4	0.4 - 2.5
4 - 7	0.5 - 2.0
8 - 15	0.6 - 1.66
16 - 50	0.75 - 1.33
51 - 200	0.80 - 1.25
>200	0.85 - 1.18