

**“Phase 2A-Integrated Waste Screening System (IWSS) Bulk Characterization and Segregation Demonstration and Phase 2B X-Rok Encapsulation Demonstration”**

**Submitted by:**

**Battelle Energy Alliance**

- Request for 2A - \$350,000; 2B - \$100,000**  
**Total Project Costs (2A & B) - \$900,000**  
**Project Duration: (2A) – 6 months; (2B) – 3 months**

# PROJECT DESCRIPTION

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- Phase 2A intends to demonstrate the Integrated Waste Screening System (IWSS) Bulk Characterization and Segregation technology being developed by Battelle Energy Alliance (BEA) and Volume Waste Screener (VWS) technology. The VWS technologies are designed to quantitatively characterize the Technologically Enhanced Naturally Occurring Radioactive Material (TENORM) content in picocuries per gram (pCi/g) of wastes and to segregate bulk containers of waste or loose debris at the drill site, collection site or the disposal site.
- The IWSS-VWS processes will allow the TENORM wastes to be segregated and be disposed of at either licensed commercial or higher-level waste sites whereas  $<5$  pCi/g wastes can be disposed of in commercial landfills or reused in other applications.

# TECHNICAL REVIEWERS' RATING SUMMARY

		Technical Reviewer			
Statement	Weighting Factor	<u>G-35-01A</u>	<u>G-35-01B</u>	<u>G-35-01C</u>	<u>Average Weighted Score</u>
Objectives	9	3	3	4	27
Achievability	7	3	2	4	21
Methodology	8	2	1	4	16
Contribution	8	3	4	5	32
Awareness / Background	5	3	4	5	20
Project Management	3	3	3	4	9
Equipment / Facilities	2	3	2	4	6
Value / Industry-Budget	4	3	3	4	12
Financial Match – Budget	4	2	3	5	12
<b><i>Average Weighted Score</i></b>		<b>138</b>	<b>138</b>	<b>217</b>	<b>164</b>
<b><i>Maximum Weighted Score</i></b>				<b>250 possible points</b>	

# TECHNICAL REVIEWER TOTALS

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- G-35-01A

Average Weighted Score: 138 out of 250

**FUNDING TO BE CONSIDERED**

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- G-35-01B

Average Weighted Score: 138 out of 250

**FUNDING TO BE CONSIDERED**

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- G-35-01C

Average Weighted Score: 217 out of 250

**FUND**

# DIRECTOR'S RECOMMENDATIONS

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**Fund Phase 2A for \$350,000 upon adequately addressing and providing a written response to the questions and concerns made by the Technical Reviewers.**