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## TECHNICAL MEMORANDUM

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TO: Karie Blomquist, ATK

REF. NO.: 004354

FROM: Robert Martin 

DATE: January 11, 2010

RE: **Identification of Candidate Technologies  
Radiation Technology Incorporated Superfund Site  
Rockaway Township, New Jersey**

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This technical memorandum serves to identify the candidate technologies that will be considered in the preparation of the Feasibility Study for Operable Unit 2 (OU2) at the Radiation Technology Incorporated (RTI) Superfund Site in Rockaway Township, New Jersey (Site). OU2 addresses potential source(s) of groundwater contamination at the Site.

In the fall of 2008, ATK completed a Remedial Investigation (RI) as required by the Administrative Order on Consent (AOC) dated October 4, 2009, for OU2. Based on the previous remedial investigation and subsequent removal actions completed at the site, the 2008 RI for OU2 was limited to specific areas of the site requiring additional investigation. Furthermore, the investigation within these areas was focused on historic operations related to the rocket motor industry.

The Site Characterization Summary Report (SCSR) (CRA, February 2009) submitted to the USEPA in February 2009 summarized the analytical data collected during the RI. The SCSR also included a Pathways Analysis Report (PAR)/Human Health Risk Assessment (HHRA) and Screening Level Ecological Risk Assessment (SLERA).

The PAR/HHRA determined that the soil, surface water, and sediment contaminant concentrations reported from the RI work do not pose an unacceptable risk to potential receptors. In addition, the results of the SLERA indicated that concentrations of contaminants detected in surface soil, surface water, and sediment at the site are unlikely to pose any unacceptable risks to terrestrial or aquatic receptors of concern identified at the site.

However, prior to the lodging of the AOC for OU2, ATK and their consultant CSI, along with USEPA, sampled surface drum material and surface soil in the former drum disposal areas within the RTI Area. These results were also evaluated to assess potential risk to human health and the environment. Results of this risk assessment were submitted to the USEPA on August 6, 2009, as an Addendum to the SCSR. The results of the risk assessment indicated that elevated metals concentrations contribute to unacceptable risks for potential future residential receptors exposed to the drum material. However, risks posed by the drum material to industrial receptors were found to be acceptable. In addition, potential risks from surface soil were found to be acceptable for all receptors, including potential future residents.

Given the above, the identification of the candidate technologies presented below is based upon the remediation of surface drum material and potentially impacted soil below this drum material. Although

considered, there were no innovative treatment technologies that were identified to be appropriate for further consideration. The following list of candidate technologies is proposed for the alternatives analysis in the feasibility study:

- No Further Action
- Physical Barrier (fencing)
- Removal/Excavation with off-Site Disposal

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