

**Interagency DNAPL Consortium: A Successful Commitment to Accomplish
Three Complex Demonstrations of Innovative Technologies for DNAPL Remediation**

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The U.S. Department of Energy, Office of Science and Technology (DOE-OST); U.S. Environmental Protection Agency, National Risk Management Research Laboratory (EPA-NRMRL); National Aeronautics and Space Administration, Kennedy Space Center (NASA-KSC); and the U.S. Air Force 45th Space Wing (45th Space Wing) have combined resources to form the Interagency Dense Non Aqueous Phase Liquids (DNAPL) Consortium (IDC). Each of these member offices signed a Memorandum of Agreement on April 6, 1999 to formalize their relationship and commitment to the IDC. In FY2000 the U.S. Navy, Naval Facilities Engineering Services Center (Navy-NFESC) realized the benefits of the IDC and have been actively participating since. Through 2002 the Interagency DNAPL Consortium will conduct demonstrations of DNAPL remediation and monitoring technologies. The objective of the demonstrations is to evaluate and compare the cost and performance of *in situ* DNAPL remediation processes through concurrent testing under realistic, field-scale conditions and in similar geologic environments. The demonstrations are being conducted at Launch Complex 34, Cape Canaveral Air Force Station, Florida. The technologies being demonstrated are Oxidation using Potassium Permanganate, Six Phase Heating, and Steam with Co-air Injection. In order to successfully accomplish the demonstrations, each of the IDC members has had to determine a joint set of goals and framework for accomplishment; provide resources and expertise to fund the demonstrations; manage the design and field efforts; monitor the technology installations and operations; and determine the cost and performance results. In order to disseminate the demonstration results, the IDC had to develop a publishing plan that accurately presents the results to the DNAPL research and site owner communities, while balancing the marketing strategies of each technology vendor. All of these accomplishments have required from each IDC member a commitment to success and profound willingness to learn and jointly confront design, logistical, and performance issues in a clear, documented, defensible manner. The intent of the presentation is to provide a background on the IDC and highlight their accomplishments and commitments, provide a brief summary of the demonstration results to date, and present the proposed future efforts of the IDC.