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**SOUTH GROUNDWATER CONTAMINATION  
PLUME REMOVAL ACTION WEEKLY REPORT  
JANUARY 22, 1993**

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REPORT**

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SOUTH GROUNDWATER CONTAMINATION PLUME  
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January 22, 1993

Part 1 - Alternate Water Supply

The Department of Energy (DOE) is awaiting for an Ohio Environmental Protection Agency (OEPA) response on the request for approval to operate the water well system for Albright and Wilson Americas, Inc. (AWA). The initiation of the 60-day acceptance period of the water well system by AWA is contingent upon OEPA approval to operate the wells.

Part 2 - Pump and Discharge

Design drawings for the single NPDES monitoring facility proposed under Construction Package 2A to be installed between manholes 176B and 177B are expected to be completed by January 29, 1993.

The outfall outlet (Construction Package Part 2B1) is complete.

Construction of the Oxygen Augmentation System (Construction Package 2B2) is progressing. Package 2B2 schedule will likely be impacted by late delivery of blowers and some electrical equipment, but should not impact the overall Part 2 schedule. DOE had planned for aeration capability during the pump test proposed under Construction Package 2D to avoid an impact to the Fernald Environmental Management Project (FEMP) discharges to the Great Miami River (GMR). The equipment delivery delays under Package 2B2 may result in inability to aerate the South Plume discharge stream during the pump test. On August 26, 1992, DOE requested OEPA to acknowledge the likely non-aeration situation and to provide relief from potential enforcement actions in the event of NPDES noncompliance. DOE has not yet received a written response from the OEPA.

Part 3 - Installation and Operation of an Interim Advanced Wastewater Treatment (IAWWT) system to reduce uranium contaminant loading to the Great Miami River to a level less than 1,700 pounds per year.

The 90% design effort for the flocculation/clarification step upstream of the IAWWT(BDN-ETS) was submitted for review on January 7, 1993. The design was placed on hold until additional information is gathered on the sand filtration testing. Upon completion of sand filtration testing, a decision will be made to proceed with the pretreatment system (flocculation/clarification or sand filtration) which best suits the continued operation of the IAWWT(BDN-ETS) unit. The decision is expected to be made by mid-February, which will accommodate installation of the selected pretreatment system by June 30, 1993.