Attachment

Summary of Results
Final Status Survey Report – Survey Units 1, 3, and 10

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FINAL STATUS SURVEY REPORT

SUBSURFACE SOIL CHARACTERIZATION AND FINAL STATUS SURVEY PROJECT

SURVEY UNITS 1, 3, 10

NUCLEAR FUEL SERVICES NORTH SITE

Erwin, Tennessee

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E.0 EXECUTIVE SUMMARY

Nuclear Fuel Services (NFS) contracted MACTEC Development Corporation (MACTEC) to assist in the radiological decontamination and decommissioning (D&D) of the NFS North site (the site). The overall objective is to establish the post-remedial action radiological conditions at the site such that Survey Units 1, 3, and 10 are in compliance with the NFS site Decommissioning Plan (DP) (NFS 2006), and meet the radiological release criteria for unrestricted use in accordance with Title 10 Code of Federal Regulations (CFR) Part 20, Subpart E. The site-specific DP establishes the radiological conditions that must be met in order to demonstrate compliance with the Nuclear Regulatory Commission's (NRC) decommissioning criteria. (NFS 2006).

Based upon the requirements and commitments contained in the DP, NFS and MACTEC have completed the specified decommissioning activities and completed a final status radiological survey of the potentially impacted area of the site identified as Survey Units 1, 3, and 10. This survey establishes the final radiological conditions within the subject survey unit(s) at the site. The final status survey also serves to demonstrate that the radiological conditions within the survey unit(s) comply with the criteria and conditions specified in the DP and are protective of human health and the environment. This report documents the final radiological status of Survey Units 1, 3, and 10 at the NFS North site.

The NFS North site is comprised of the former radiological burial grounds and a set of evaporation and settling ponds. Survey Units 1, 3, and 10 are associated with the former radiological burial grounds.

Based on an evaluation of available and relevant historical data from within and immediately surrounding the land area in question, Survey Units 1, 3, and 10 were established as official survey units, and a subsurface soil characterization plan was developed. The survey design implemented supports both the characterization of residual radioactivity in the soil and the final status survey.

Quality control (QC) samples were taken during the survey process. Review and analysis of the QC measures indicate that the data collected meet the data quality objectives and are acceptable for their intended use. In addition, no unexpected results or trends are evident in the data.

The design and interpretation of the final radiological status survey in support of the North Site Decommissioning Project are based on the proprietary subsurface soil derived concentration guideline level (DCGL) methodology developed by MACTEC and approved in the DP. The method is designed to implement the NRC's decommissioning guidance found in NUREG 1757, *Consolidated NMSS Decommissioning Guidance, Volume 2, Characterization, Survey, and Determination of Radiological Criteria* (NRC 2003). The residual radioactivity release criteria have been derived from the basic annual dose criterion applicable to decommissioning sites.

The survey data were compared to the DCGLs, both statistically and with non-statistical comparisons, using the approved subsurface soil DCGL (SSDCGL) compliance metrics. The radiological survey data demonstrates that the site meets the DCGLs established. Concentrations of residual radioactivity were found to be essentially indistinguishable from background. Statistical evaluation of the data indicates that the residual radioactive DCGLs were met with greater than 95% confidence.

Based upon the evidence provided by the final radiological status survey of the site, NFS concludes that Survey Units 1, 3, and 10 are in compliance with the NFS site DP and meet the radiological release criteria for unrestricted use, in accordance with 10 CFR 20, Subpart E.

ENCLOSURE 2

AFFIDAVIT
TRADE SECRETS OR COMMERCIAL INFORMATION

I, B. Marie Moore, Director of Safety & Regulatory at Nuclear Fuel Services, Inc. (NFS), that to the best of my knowledge and beliefs (and in reliance on the affidavit of MACTEC, Inc. ("Contractor") attached hereto, as applicable), make the following representation contained herein:

A. The following document(s) which Nuclear Fuel Services, Inc. (NFS) wishes to have withheld from public disclosure are:

Final Status Survey Final Report for Survey Units 1, 3, and 10), dated January 2009, in its entirety.

B. The information contained in the document(s) cited in A above has been held in confidence by Nuclear Fuel Services, Inc. (NFS), or its Contractor, in that it contains trade secrets or commercial information as specified in Title 10, Code of Federal Regulations, Part 2.390(a). The basis for requesting that this document(s) be withheld from public disclosure is explicitly marked on the cover page to each of the aforementioned documents and/or the top of each affected page in accordance with 10 CFR 2.390(b)(i)(B).

C. The information contained in the document(s) cited in A above is the intellectual property of Nuclear Fuel Services, Inc. (NFS), or its Contractor, and as such is customarily held in confidence by Nuclear Fuel Services, Inc. (NFS). As such, Nuclear Fuel Services, Inc. (NFS) has customarily submitted privileged and confidential information of this type to the Nuclear Regulatory Commission (NRC) and to its predecessor, the Atomic Energy Commission (AEC), in confidence.

D. The information contained in the document(s) cited in A above has not been made available to public sources by Nuclear Fuel Services, Inc. (NFS), nor has Nuclear Fuel Services, Inc. (NFS) authorized that it be made available. In accordance with Nuclear Fuel Services, Inc. (NFS) policies governing the protection and control of information, proprietary information contained herein has been made available, on a limited basis, to others outside NFS only as required and under suitable agreement providing for nondisclosure and limited use of the information.

E. The public disclosure of the information contained in the document(s) cited in A above is likely to cause substantial economic harm to the competitive advantage held by Nuclear Fuel Services, Inc. (NFS), or its Contractor. The basis for withholding said information is that it contains distinguishing aspects of a process, methodology, or component(s), the exclusive use of which provides a competitive advantage for NFS or its Contractor in product optimization or marketability.

F. The proprietary information that Nuclear Fuel Services, Inc. (NFS) requests to be withheld from public disclosure is contained in the entire document(s) as so marked.

BM Moore 7/8/09

B. Marie Moore Date

Director of Safety & Regulatory

I certify the above named person appeared before me and executed this document on this the 8th day of July, 2009.

PAMELA DIANNE JONES STATE OF TENNESSEE NOTARY PUBLIC UNICOI COUNTY

Notary Public

My commission expires: 9-28-2010

Enclosure 3

MACTEC

AFFIDAVIT
TRADE SECRETS OR PROPRIETARY COMMERCIAL INFORMATION

(1 page to follow)

AFFIDAVIT
TRADE SECRETS OR PROPRIETARY COMMERCIAL INFORMATION

I, Jeffrey W. Lively, Senior Principal Health Physicist at MACTEC Development Corporation, to the best of my knowledge and beliefs, make the following representation contained herein:

A. The following document which MACTEC Development Corporation wishes to have withheld from public disclosure is:

   Final Status Survey Report, Survey Unit 1, 3, 10, dated January 2009, in its entirety.

B. The information contained in the document cited in A above has been held in confidence by MACTEC Development Corporation, in that it contains trade secrets or proprietary commercial information as specified in Title 10, Code of Federal Regulations, Part 2.390(a). The basis for requesting that this document be withheld from public disclosure is explicitly marked on the cover page to the aforementioned document and/or the top of each affected page in accordance with 10 CFR 2.390(b)(i)(B).

C. The information contained in the document cited in A above is the intellectual property of MACTEC Development Corporation, and as such is customarily held in confidence by MACTEC Development Corporation. As such, MACTEC Development Corporation has customarily submitted privileged and confidential information of this type to the Nuclear Regulatory Commission (NRC) in confidence.

D. The information contained in the document cited in A above has not been made available to public sources by MACTEC Development Corporation, nor has MACTEC Development Corporation authorized that it be made available. In accordance with MACTEC Development Corporation policies governing the protection and control of information, proprietary information contained herein has been made available, on a limited basis, to others outside MACTEC Development Corporation only as required and under suitable agreement providing for nondisclosure and limited use of the information.

E. The public disclosure of the information contained in the document cited in A above is likely to cause substantial economic harm to the competitive advantage held by MACTEC Development Corporation. The basis for withholding said information is that it contains distinguishing aspects of a process, methodology, or component(s), the exclusive use of which provides a competitive advantage for MACTEC Development Corporation in product optimization or marketability.

F. The proprietary information that MACTEC Development Corporation requests to be withheld from public disclosure is contained in the entire document as so marked.

10 FEB 2009

Jeffrey W. Lively — Date
Senior Principal Health Physicist
Radiological Services Division
MACTEC Development Corporation

I certify the above named person appeared before me and executed this document on this the 10th day of February, 2009.

Notary Public

My commission expires: January 27, 2012

JEANETTE E. DEARBORN NOTARY PUBLIC STATE OF COLORADO