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September 6, 2005

**Certified Mail No. 7002 3150 0005 0594 6928**  
**Return Receipt Requested**

Mr. Robert Samaniego, Enforcement Section  
New Mexico Environment Department, Air Quality Bureau  
2048 Galisteo Street  
Santa Fe, New Mexico 87505

**Re: Request for Cooling Tower Testing**

Dear Mr. Samaniego,

Per the New Mexico Environment Department (NMED) request to Intel on October 28, 2004 for a test protocol to characterize the emissions of regulated pollutants<sup>1</sup> from Intel's cooling towers, Intel submitted a letter on March 21, 2005. This letter included an assessment of any regulated pollutants<sup>1</sup> that could be present in the cooling towers and an evaluation to applicable testing methods for characterizing emissions from a cooling tower. Based on that assessment and evaluation Intel is providing the attached test protocol for testing the North Energy Center (NEC) and Central Utilities Building (CUB) cooling towers. The testing protocol encompasses water analysis for constituents that could form air emissions and this characterization will be used to evaluate potential air emissions from the cooling towers. The testing is scheduled for September 19, 2005 through September 23, 2005. If you would like additional information or would like a pre-test meeting scheduled, please contact me at (505) 794-4911.

Sincerely,

A handwritten signature in cursive script that reads "Andrew D. Moen".

Andrew D. Moen  
Environmental Engineer (RR8-126)

Enclosure  
(EHS054)

<sup>1</sup>Intel assumed the term "regulated pollutants" to mean air pollutants that are regulated under the National Air Quality Standards in 40 CFR Part 50, New Mexico Ambient Air Quality Standards in 20.2.3 NMAC, Hazardous Air Pollutants (HAP's) defined in § 112 on the Clean Air Act, Toxic Air Pollutants (TAP's) as defined by 20.2.72.401 NMAC and any other air pollutant for which there is an emission regulation or standard of performance applicable to the Intel Facility.

**3<sup>rd</sup> Quarter 2005 UPDATE  
COOLING TOWER WATER SAMPLING PLAN  
INTEL CORPORATION  
RIO RANCHO, NEW MEXICO**

*Prepared for:*



**INTEL CORPORATION  
4100 SARA ROAD  
RIO RANCHO, NEW MEXICO 87124**

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*Prepared by:*



*Customer-focused Solutions*

**TRC ENVIRONMENTAL CORPORATION  
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**TRC Project No. 31397-2700-00000**

**September 1, 2005**

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Overview

This Sampling Plan is written and submitted to guide the objectives and schedule that will be followed in conducting the NMED requested cooling tower (CT) measurements. This program focuses on measurements necessary to develop a basis to assist in assessing potential emissions of regulated air pollutants from the facility CT's. The approach to the measurement program will consist of collecting water samples at the independent cooling tower sump sources under a predefined schedule and frequency.

The data derived from this measurement program and resultant analyses will support an assessment of the potential for emissions of regulated air pollutants. Specifically, air pollutants for which there are National Ambient Air Quality Standards in 40 CFR Part 50 and New Mexico Ambient Air Quality Standards in 20.2.3 NMAC, Hazardous Air Pollutants (HAP's) as defined by §112 of the federal Clean Air Act, Toxic Air Pollutants (TAP's) as defined by 20.2.72.401 NMAC and any other air pollutant for which there is an emission regulation or standard of performance applicable to Intel's facility. A general overview of the program measurement objectives that are to be accomplished in this program are provided as follows:

Cooling Tower 2005 Program Testing Objectives

- ✦ Characterize the water used in the facility CT's, in terms of regulated air pollutants, through a defined sampling/collection schedule at normal duty cycles that support typical and representative CT operation;
- ✦ Track CT operating parameters during the initial phase sampling program;
- ✦ Use the water analyses data from the sampling phase to assess the potential for regulated air pollutants to be emitted from the cooling towers. Emissions will be based upon cooling tower: operating parameters, performance, water sample results, and applying standard emission rate estimating tools.

The focus of this first phase sampling program is to characterize the water composition in the North Energy Center (NEC) and Central Utility Building (CUB) CT's sumps in relation to regulated air pollutants. The characterization will then be used to assess the potential emissions of regulated air pollutants through flash-off (vaporization) or drift (air-borne water droplets) from the CT's.

**Cooling Tower Monitoring Plan - 3rd Qtr 2005 Update**

TRC ENVIRONMENTAL CORPORATION

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