



Community Environmental Working Group Revised Draft Meeting Summary

Date: September 15, 2004
Time: 5:00-7:00 p.m.
Location: Intel Campus, Building RR5

Members Attending

Acting Chair: John Bartlit, NM Citizens for Clean Air and Water
Hugh Church, American Lung Association
Heath Foott, Intel
Tom Johansen, Skyview Acres Resident
Mindy Koch, Intel
Edward Pineda, Rio Rancho Resident
Mike Williams, NM Citizens for Clean Air and Water

Guests

Bill Guyton, TRC
Andrew Moen, Intel

Facilitator

Theresa Gunn, Gunn Communications, Inc.

DECISIONS

The group agreed that John Bartlit should continue as the Working Group's acting chair.

HANDOUTS

- Agenda
- Draft August 25, 2004 Meeting Summary
- Intel 3rd Quarter Sampling Requirements
- Progress Report #1

TASK	WHO	WHEN
Send web address for Intel permit on the New Mexico Environment Department website	Theresa	
Resend Industrial Revenue Bond information to Edward	Theresa	ASAP
Reminder: Handouts need to be large enough to read	Intel/GCI	--
Post questions on website	Intel	When Available
Contact emergency first responders	Heath	Prior to Oct 20

WELCOME AND ADMINSTRIVIA

Theresa welcomed the members and asked them to introduce themselves.

The group discussed meeting logistics and distribution of the group's meeting summary.

- On the meeting summary change "Members" to "Members in Attendance"
- Send meeting summary via e-mail to members
- Members will review the draft summary and return comments by the deadline
- Changes will be made and the meeting summary will be posted prior to the next meeting

The Intel Community Information Telephone Line is **505-893-4444**, press **option 1** for the weekly environmental update.

PURPOSE OF THE WORKING GROUP

John reviewed the purpose of the group and the September progress report. John's key points were that the group:

- Focus on environmental progress
- Subscribe to continuous improvement
- Focus on calendar time and measure, track and report progress

THIRD QUARTER STACK TESTING (TASK FORCE RECOMMENDATION #2)

Heath Foott reviewed Intel's testing requirements. Highlights included:

- Testing is every quarter with approximately 32 weeks of testing each year
- Testing frequency: VOC emissions are tested quarterly and HAPs are tested annually
- Intel must submit a testing plan to New Mexico Environment Department (NMED) 30 days in advance of each quarterly testing cycle
- NMED approves the testing plan prior to implementation
- Intel is required to provide testing results to NMED 30 days after testing is completed

OBSERVATION OF STACK TESTING

Working Group members took a tour of the fab sub-floor, main floor and roof to observe the scrubber and stack testing. The following is a list of questions identified by the members during the tour. Some questions were answered during the tour; the remainder will be discussed at the October Working Group meeting.

CEWG Questions and Comments:

- Test procedure? From where? How selected? Approved by whom?
- Test operator certified for procedure? Papers?
- Test equipment calibrated? Certified? By whom? Papers?
- Is advance notification given for testing? Any unannounced testing done on any stacks?

- Does the test operator have any evidence that facility operations and gas flows are normal during testing?
- How much variability is there in stack conditions (flows, concentrations) during the testing?
- What evidence is available that facility operations and gas flows were normal throughout the testing?
- What happens if facility conditions or gas flows go off-normal during testing?
- Do facility operators know when stack testing is being done? If so, do they take particular care to maintain steady facility operations?
- What happens if a stack test gives an unexpected result? (“unexpected” means abnormally high or low, in violation of a permit condition, or such that a permit violation would result if the test condition continued for an extended period or all year)
- If a test shows unexpected result, is a retest ever done? If so, how are the duplicate sets of data handled and reported?
- What concerns, if any, does Intel have regarding the accuracy or representativeness of the stack testing?
- From Intel’s perspective, what are the weakest elements of the stack testing and the reporting of the results to the NMED, the public and the media?
- What is the range of variation of specific compounds among the monitored VOC’s.
- What happens if a scrubber stops working? How quickly is the exhaust transferred to another scrubber? **Response:** If a scrubber malfunctions, the fan is turned off which prevents any exhaust from entering the scrubber. The exhaust will be pulled into the operating scrubbers. There are sufficient numbers of scrubbers to handle the exhaust if one goes off. If the exhaust isn’t being abated, Intel is required to contact NMED and report the excess emissions.
- Do you notify the community when this happens? **Response:** Yes, through information line.
- What is the downtime of scrubbers and how much unabated exhaust is emitted?
- Is the Intel FTIR measuring the same substances as the community FTIR? **Response:** Each FTIR has a library of chemicals for which it can test. Intel doesn’t know which library the community FTIR uses. Also the FTIR used by Intel is a short closed path and the community uses a long open path FTIR. There are differences in the two methods.
- Can citizens get Intel monitoring data? **Response:** Yes, through the state.
- Where do the stack emissions come from? **Response:** They come from the tools and the wet benches and sinks. Any spills in the clean room could go out untreated but would be accounted for in Intel’s emission report.
- Is there monitoring of untreated exhaust? **Response:** No, but do account for all chemicals consumed.
- Why not monitor all stacks? **Response:** It is very expensive and would result in a significant amount of data, the majority of which would be non-detectable measurements.
- What are the inlet and outlet concentrations for HAPS and VOCs? What are the ratios?
- How many excess emission reports were made in last two years? What are the excess emissions— do they exceed permit levels?
- Has NMED had any complaints/concerns about the calibration process?

- Does NMED conduct surprise inspections? **Response:** No, but Intel has told NMED that they will be accommodated anytime they wanted to come to the site and they do not need to call in advance.
- NMED should invite community representatives to participate in the state inspections.
- What are the causes of the downtime events and what is being done to prevent downtime?
- Can you monitor the effectiveness of abatement equipment?
- Compare annual averages vs. daily/hourly emissions.
- What happens during a major power failure? **Response:** The exhaust abatement systems are powered by generator for a few hours. The plant would be shut down and would not be producing any emissions. Fire in northern New Mexico was last major power outage.
- What are the emissions during plant start-up?
- How much variation occurs in emissions when calculate excess emissions?
- How do we know sample is representative of the plant's normal or abnormal production levels?
- What are the visible emissions from South scrubbers?
- Who maintains the abatement equipment—vendor or employees?
- Does Intel have a contract with the vendor for support? **Response:** Yes
- How soon do you know when abatement equipment goes down? **Response:** Automatic pager. Operating parameters are constantly monitored and trigger automatic alarms.
- How can Intel share the abatement monitoring information with the public?
- Total power outage impacts on emissions?
- Frequency of unabated emissions by class of containment
- What are the production levels during the testing? **Response:** The report indicates the percentage of fab operations during the testing.
- What is known about the chemicals or chemical specs analyzed by Intel's FTIR as compared with the chemicals analyzed by the citizens' FTIR? (Does Intel analyze for everything the citizens do?)

DISTRIBUTION OF INFORMATION TO COMMUNITY

The group discussed how to prepare and distribute a monthly progress report to the community.

- Add a date to progress report
- Prepare a report for October using tonight's questions
- Consider insert the report as a flyer in paper
- Consider publishing report as an Op Ed Column in paper
- Report needs to be published in the Comment and Journal's Westside edition