

## **DRAFT MEETING SUMMARY**

### **Community Environmental Working Group**

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#### *“Striving for Continuous Environmental Improvements at Intel”*

**Date:** January 16, 2019  
**Time:** 5:15–7:00 p.m.  
**Location:** Corrales Senior Center

#### **Members Attending**

John Bartlit, NM Citizens for Clean Air & Water	Hugh Church, American Lung Association in New Mexico
Mike Williams, NM Citizens for Clean Air & Water	Sarah Chavez, Intel
	Dennis O’Mara, Corrales resident, Corrales Residents for Clean Air and Water

#### **Non-Members Attending**

Erika Edgerly, Intel and Corrales Resident	Alexander Lowry, Intel
Jessie Lawrence, Facilitator	CJ Ondek, Recorder

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#### **HANDOUTS**

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| <ul style="list-style-type: none"> <li>▪ CEWG Draft Agenda</li> <li>▪ December Draft Meeting Summary</li> <li>▪ NMED December 4 Draft Meeting Summary</li> <li>▪ NMED December 19 Draft Meeting</li> </ul> | <ul style="list-style-type: none"> <li>Summary</li> <li>▪ Action Item Progress Report</li> <li>▪ January EHS Activity Report</li> <li>▪ 2018 Draft Annual Report</li> </ul> |
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#### **PROPOSED AGENDA**

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| <ul style="list-style-type: none"> <li>▪ Welcome, Introductions, and Brief Items</li> <li>▪ Standing Agenda Items</li> <li>▪ CEWG Ads</li> <li>▪ NMDOH ALS Report Panel/Dialogue</li> </ul> | <ul style="list-style-type: none"> <li>▪ CEWG Annual Report</li> <li>▪ Intel NMED Emissions Permit History and Content</li> <li>▪ Action Item Progress Report</li> <li>▪ Adjourn</li> </ul> |
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**WELCOME, INTRODUCTIONS, ANNOUNCEMENTS, BRIEF ITEMS**

John Bartlit opened the meeting by stating the CEWG mission, which was to make environmental improvements at Intel, reduce chemical emissions at Intel, and improve community dialogue. Introductions were made.

Agenda—Revisions and Approval

No comments.

Meeting Summary—Revisions and Approval

Sarah Chavez said she had a comment on the December 4<sup>th</sup> Meeting Summary. In the second paragraph on page 6, it was recorded that Lynne Kinis said “nine RTOs [were] off line.” Ms. Chavez said that number was incorrect. At the time immediately before the power outage, seven RTO units were operating, and all seven were shut down due to the power outage. When Intel restarted production, four RTOs were repowered, while three RTOs remained down due to technical issues. She asked that the meeting summary be revised to reflect the correct number of RTOs. The December 4 and December 19 meeting summaries were approved with that change.

Other Announcements

No comments.

Public Comment

No comments.

**STANDING AGENDA ITEMS**EHS Report

- Sarah Chavez said she had one addition to the EHS report that occurred today. Intel submitted an administrative revision to the permit to install two hot water boilers for heating and producing hot water for personal use. She said she would add this item to next month’s EHS report.
- Dennis O’Mara said in Corrales people were required to keep the water that accumulated on their property rather than allowing it to run off. He wondered if Rio Rancho had the same requirement or if they understood legal boundaries regarding the Intel property. Sarah Chavez said that a portion of Intel’s property was located in Bernalillo County and another portion located in the unincorporated section of Sandoval County. For either location, there were no special requirements about keeping storm water onsite, so Intel followed the standard storm water management processes. John Bartlit asked if Ms. Chavez could find the specific requirements. She said these came from the engineering firm that designed the slope, and they would most likely have these documented

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somewhere, but she didn't know if there was anything specific written about it. She said she would check.

**ACTION ITEM:** Sarah Chavez will check with the engineering firm about storm water runoff requirements.

- Dennis O'Mara said Corrales was undertaking a project to ameliorate the drainage problems that occurred at the base of the escarpment. They learned that a channel was illegally filled in and houses were built on it. These houses received a lot of damage from flooding caused by storms. He said during a storm it was amazing the large amount of water running off the escarpment and hitting the escarpment slope that moved down into the areas around these houses. He suggested Intel look into doing more than standard water management to possibly help relieve the situation somehow. Ms. Chavez said that the wind over time affected the path of water flow, and there were a lot of factors that played into the issue.
- Dennis O'Mara asked if Intel could update the CEWG on the water damage complaint after their meeting with the person making the complaint. Erika Edgerly said they could only do so if that person gave their permission to share.

Regulatory Engineering: *No updates.*

#### LEPC Update

Dennis O'Mara said that because of other important meetings the January LEPC meeting was cancelled, to be rescheduled in April. He said he objected to this date, so they rescheduled for February, but he did not have a specific date yet.

#### UNM Cancer Study

Dennis O'Mara said that he had communicated with Dr. Wiggins over the last two weeks. Dr. Wiggins wanted to sit down and go over report with Mr. O'Mara before it was published, but to do that required NMDOH approval. Mr. O'Mara said he pointed out that NMDOH would most likely refuse to do this, as they did with the ALS report. Dr. Wiggins told Mr. O'Mara that NMDOH was still considering it. As for Dr. Wiggins coming to a CEWG meeting, Mr. O'Mara asked if March might be a good time to schedule Dr. Wiggins. Jessie Lawrence said that she thought the CEWG could work out the logistics based on Dr. Wiggins' availability, except for February.

#### **CEWG ADS**

Jessie Lawrence said the CEWG ads had been running in the Rio West section of the *Albuquerque Journal*, the *Rio Rancho Observer*, the *Alibi* and the *Corrales Comment*. As of fall

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2018, the West side section of the *Albuquerque Journal* stopped publication, so the ad was now running in three publications rather than four. Ms. Lawrence said that the Intel ad contact asked if the ad size in the *Observer* could be increased to spend the extra funds. Ms. Lawrence said she wanted to share this information with the group so they were kept up to date. She also said that most ads were approximately the same size. The group did not disagree with this course of events.

#### NMDOH ALS REPORT PANEL/DIALOGUE

- Jessie Lawrence updated details on the February NMDOH ALS report panel and dialogue. She said she sent an email to CEWG regulars about holding the 1pm to 3pm time slot open for the February 20th meeting. The Corrales Community Center located across the parking lot was the tentative venue. She gave an inventory of her conversations with panel members. Heidi Krapfl said she could participate in person during the day and requested starting with a short presentation on how population size and disease prevalence affected similar studies. Dr. Elijah Stommel had a strong preference for an afternoon meeting, which he could attend via phone or Skype but preferred phone. Steve Dickens said he could participate in an afternoon meeting by phone but would need to leave by 2:30 Mountain Time. Andy Rowland said the afternoon time was slightly inconvenient but he could accommodate the time and would participate in person. All panelists were holding the time on their calendars. Ms. Lawrence said she would confirm with them after the CEWG meeting. She asked the group if she could officially confirm the time. The group said yes.

**ACTION ITEM:** Jessie Lawrence will confirm the February meeting time with panelists.

- John Bartlit asked about the phone connection. Jessie Lawrence said she was confident they would be able to connect via cell phone with a speaker. The two long-distance participants will call in and be connected to the group via a speaker. Ms. Lawrence said she was not sure if Wifi was available in the Community Center, but if it wasn't they could use a personal hot spot. Dennis O'Mara expressed concern about the Community Center's set up and temperature control. He suggested arriving early to turn on the heat. Ms. Lawrence said she would arrive early and turn on the heat as well as confirm with the Village of Corrales items like chairs and tables. She said when she looked in the room today there were two long tables and plenty of chairs. Mr. O'Mara asked about anyone showing slides. Ms. Lawrence said no one had expressed this yet, but she would check. She had her own equipment for showing slides, in case it was needed. Ms. Lawrence added that they needed to vacate the building by 3:30 at the latest because another group was coming in next.

**ACTION ITEM:** Jessie Lawrence will confirm Community Center logistical

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details with the Village of Corrales.

- John Bartlit asked about ground rules for the panel discussion and how it would be managed to ensure everyone had time to answer the five questions in the two hours. Jessie Lawrence suggested developing a draft agenda that gives each participant a specific amount of time to share their responses to the five questions and then additional time for them to ask each other questions. Ms. Lawrence asked the group how they would like to handle Heidi Krapfl's request for a presentation, as well as if they wanted to ask her to give an overview presentation on the study to set the stage for discussion. Dennis O'Mara said that all participants would have read the study, so he did not think it was wise to use up time on an overview.
- Jessie Lawrence asked the group to think about designating time for panelists to ask questions of each other before the open question and answer period. Mr. Bartlit said he liked that idea. Ms. Lawrence said she would put together a draft agenda and circulate it in advance. She asked if anyone felt strongly about using Skype versus cell phone. John Bartlit said he thought a cell phone was clearer. If they wanted to use visual aids, then it was a different story. Dennis O'Mara said Skype technical challenges might eat into their time. Ms. Lawrence said she planned to work on connecting the panelists via cell phone in advance of the 1:00 pm meeting time.
- Dennis O'Mara said he wrote a background paper on behalf of Corrales Residents for Clean Air and Water that he wanted panel members to consider. The paper included background, concerns about the report, and suggestions. He hoped to distribute this paper to panelists and CEWG members in the next couple of days and well in advance of next month's meeting. The paper was about six and a half pages long. He said he would make no special presentation during the meeting and hoped that they had time to consider his points and bring it to the table for discussion. Ms. Lawrence said she would distribute the paper by email to CEWG members and panelists.

**ACTION ITEM:** Jessie Lawrence will distribute Dennis O'Mara's paper by email to CEWG members and panelists.

- Sarah Chavez asked about changing meeting time and location in the February ad. Erika Edgerly said they would not need to get Intel approval for this kind of change.

### **CEWG ANNUAL REPORT**

Sarah Chavez said she took the items discussed at last month's meeting and wrote a few sentences on each for the first draft. She organized it chronologically. Each item listed where to find out more detailed information in the topic index on the CEWG Web site. John Bartlit said

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the draft looked good to him. Jessie Lawrence said she would send an email asking people with edits to respond by email within a week to 10 days, after which she will finalize the annual report.

**ACTION ITEM:** Jessie Lawrence will send an email to CEWG members asking them to respond with annual report edits by a certain date.

## **INTEL NMED EMISSIONS PERMIT HISTORY AND CONTENT**

- Sarah Chavez began her coverage of Intel's permit #0325-MI-R8. The "R8" indicated the revision number. She reminded that Intel recently submitted an administrative revision. The way NMED handled administrative revisions was to consider them effective upon receipt, she said. When that happened, NMED would issue a letter and the permit version would change to R9. NMED did not reissue the whole permit with administrative revisions, only a letter indicating the change.
- Ms. Chavez said that at tonight's meeting she would provide a high level overview of the permit and how it was structured, and if time allowed begin going through sections in more detail. Her goal was to cover the entire permit over the course of several CEWG meetings, as time allowed, in 30-minute increments. The permit was available for download on Intel's Explore Web site at [exploreintel.com](http://exploreintel.com).
- John Bartlit asked about the term "synthetic" used in the "Source Classification" on the cover page as follows: Title V Synthetic Minor >80. Sarah Chavez said it referred to pollution limits below the Title V category. Not all pollutants had pollution control devices on them, so an overall limit was imposed. Alex Lowry said there were three buckets permits fell into: 1. Minor source permit, 2. Synthetic minor source, and 3. Major source. A minor source permit meant emissions were below major source permit and no pollution controls were used. Synthetic minor source meant that control devices were used to keep the emissions below a designated threshold. Major source was emissions were above a certain amount. As used in this case, the Title V term might be a bit misleading but refers to a specific program.
- Sarah Chavez referred to the Table of Contents on page A2 and explained that the permit was broken into three parts based on NMED's template. Part A was "Facility and Equipment Specific Requirements" and contained information pertaining as such; Part B was "General Conditions," which was concerned with reporting, recordkeeping, etc.; and Part C was "Supporting Online Documents, Definitions, Acronyms, etc." She provided three slides for reference in which she broke down the Table of Contents by topic, page number, and high level summary for Part A. [See slide presentation attached with this meeting summary for reference.]

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- Sarah Chavez summarized the Part A sections (A100 to A111). She said A100 on page A3 provided an introduction that talked about the permit and its fee requirements. Part A101 looked at the terms of expiration. In New Mexico there were no expiration dates for construction permits. Title V permits had a five-year expiration date. Section A102 described the facility: What Intel was, where it was located, specific modifications from the previous permit, and tables showing the total potential emissions from the facility. A103 on page A5 looked at all regulations connected to the facility, and was similar to a checklist of applicable regulations. A104 listed the emission sources that were regulated under the permit. A105 beginning on page A6 listed the pollution control equipment required for the facility. A106 showed allowable emissions for the facility, and some were site-specific and others were equipment-specific. Section A107 on page A13 addressed allowable start up, shutdown and maintenance for the facility. Also on page A13, section A108 outlined the facility's allowable operations as per the permit. A109 listed the facility's reporting schedules; Intel was required to submit a report every six months. Section A110 showed the facility's diesel fuel requirements. The last section in Part A, A111, looked at the facility's NMAC opacity requirements, which concerned visible emissions in the air. She said she would cover opacity in more detail in a future CEWG meeting. A200 through A700 were specific industry requirements and did not apply to Intel. A800 to A806 was specific to semiconductor manufacturing standards as broken down by equipment and applied to Intel's onsite equipment.
- Sarah Chavez gave an overview on Parts B and C as listed on Page B 1. She emphasized that the language in this section was standard as per NMED's template and regulations. B100 was a general introduction. B101 outlined legal conditions. B102 identified the authority behind the permit, in this case, the Air Quality Control Act. B103 addressed annual fees owed by Intel to NMED. B104 outlined permit appeal procedures. B105 instructed on submitting required reports. B106 covered NSPS and/or MACT startup, shutdown and malfunctions operations. B107 was concerned with startup, shutdown and malfunctions operations. B108 addressed general monitoring requirements; B109 general recordkeeping requirements; B110 general reporting requirements; B111 general testing requirements; B112 compliance; B113 permit cancellation and revocation; B114 notification to subsequent owners; B115 asbestos demolition; and B116 short term engine replacement. Ms. Chavez reiterated that this section attempted to summarize general regulatory requirements as per New Mexico Administrative Code (NMAC) so facilities knew what they had to comply with.
- Sarah Chavez next summarized Part C, which began on page C1. C100 outlined supporting online documents. C101 defined common terms used throughout the permit. C102 gave a list of acronyms used in the permit template. C103 listed hazardous air pollutants.

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- Sarah Chavez returned to the beginning of Part A, page A3, A100, and addressed Intel's permit in more detail. She said A100 used standard language to discuss this permit and how it superseded the previous permits except for the compliance test requirements. Intel has had the same testing requirements for many years, she said. The fee was calculated according to NMED's method, and she did not know what the fees were. A101 said that this permit did not have an expiration date, which was typical of construction permits (minor source permits). A102 point A defined Intel's facility, which was used to manufacture semi-conductor chips. A102.B described the facility location. Dennis O'Mara commented that the location as listed here was somewhat inaccurate. He said it was important to state that the facility was located next to a densely populated area, as well as described more clearly. It seemed to him it was a legality issue. Ms. Chavez said she would take a note of this for next time the permit was revised. She did not know if NMED had a standard way to describe it and would ask NMED if there was a better way to describe it. She added to keep in mind that the permit application had specific modeling requirements that used facility coordinates, so location was described in more detail than this elsewhere. This location description was more like a one sentence summary.

**ACTION ITEM:** Sarah Chavez will ask NMED about revising A102.B to more accurately reflect the facility location.

- Sarah Chavez said A102 point C addressed permit modifications and what the changes were about. Point D introduced tables that showed the total potential facility emissions for informational purposes only. Enforceable emissions were listed in different tables.
- Sarah Chavez continued on to section A103 on page A4, which had a table that listed regulations applicable to Intel's facility. Ms. Chavez went through the list in Table A103 A, which showed the applicable requirement, whether it was federally enforceable, and to which equipment it applied to or if it applied to the entire facility. Mr. Bartlit asked if these limits have changed. Ms. Chavez said not really, except for the new greenhouse gas requirements that Intel has to report on each year to a federal agency. She said the permit referenced a federal regulation and it was up to Intel to seek it out and comply with it.
- Sarah Chavez addressed section A104, which concerned the facility's regulated pollutant sources. Table 104, Regulated Sources List, listed all Intel's units, which were numbered. The table showed the unit number, the source description, the make model and serial number, the maximum permitted capacity, and the manufacture/construction date. Intel's sources listed here were the semiconductor manufacturing fab, boilers, and cooling towers. Intel's entire manufacturing process was considered a source (the semiconductor manufacturing fab, numbered 197). Some source equipment was permitted but not yet installed. Potential facility expansion was taken into account, which was why some equipment had been permitted for but not yet installed. Dennis O'Mara asked if Intel had

given any thought to replacing older equipment for more efficient equipment. Ms. Chavez said burners had been already replaced for more efficient units. Also, Intel had been making progress on energy conservation efforts over the years and didn't have to use the capacity permitted due to this effort.

- Sarah Chavez next discussed section A105, which addressed the facility's control equipment. Table 105 listed the control equipment unit number, unit description, pollutant being controlled, control unit number, manufacturer, model number, serial number, capacity and installation date. She said the information in this table cross referenced with other sections. The equipment included thermal oxidizers, ammonia treatment systems to remove from wastewater, bulk specialty solvent waste treatment system (this had been permitted for but not installed), and acid gas scrubbers. Again, more equipment was permitted that had not yet been installed. Ms. Chavez said in 2010 Intel permitted capacity for expansion to Fab 11, which required additional control equipment. This extra equipment was not located on site. Dispersion modeling was done in accordance with every piece of equipment operating at full capacity. John Bartlit asked whether emissions from equipment items that were listed but not installed were included in this modeling as if the items were installed and operating at full capacity. Ms. Chavez confirmed that all listed items must be modeled this way to be approved. Dennis O'Mara asked if Intel's thermal oxidizers were the best available equipment. Ms. Chavez said that they did meet the best available equipment control requirement.
- John Bartlit commented that the work the CEWG had done over the years (raising stack heights, for example) did not really change anything in the permit. Sarah Chavez said the changes might have come in what Intel reported but not the conditions listed in the permit. Also changes were reflected in how Intel did dispersion modeling.
- Dennis O'Mara asked about the bulk specialty solvent waste treatment system that was not installed. Sarah Chavez said it was a waste treatment system that made a solvent waste space for shipment. It was part of the new factory that Intel was trying to install but never moved forward with, and it had to be permitted for because it had combustion emissions. It would potentially treat a liquid waste stream and was totally separate from thermal oxidizers, Ms. Chavez said.
- Sarah Chavez asked if the permit presentation format and process worked for the group. John Bartlit said yes. She said she would continue going through the permit in subsequent meetings and include a bit more detail.

## REVIEW ACTION ITEM PROGRESS REPORT

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- Sarah Chavez reported on item #10. She was aiming to have something published before the March meeting and would send any language changes to John Bartlit for approval before publication.
- On item #13, Sarah Chavez said the permit was on the Explore Intel web site. She asked to include the link on the meeting summary as well as on the CEWG web site. Jessie Lawrence said she would make sure that the permit is on the CEWG web site.
- Dennis O'Mara said to revise item #12 as follows: change the word "questions" to "materials"; change the last part to "distribute to CEWG members and panelists."
- Sarah Chavez asked to change the name of the annual reports on the CEWG web site so it is easier to find prior year reports.
- John Bartlit suggested sending the annual report to Intel employees. Sarah Chavez said she would add the link to the report into the story.

## **ADJOURN**

**NEXT MEETING:** February 20, 2019, 1:00 pm to 3:00 pm, Corrales Community Center (note different meeting time and location).

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**ATTACHMENT: 2019-1-16 PRESENTATION SLIDES**

1/21/19

# Intel Air Permit Overview

CEWG Meeting  
1/15/2019  
Sarah Chavez

## What are we doing?

- Permit 325-M11R9 – Administrative Revision – letter only
- Permit 325-M11R8 – Current full version of the permit that we will review in the CEWG
- Today will provide a high level overview of all the sections in the air permit
- If time allows will begin going through sections in more detail and continue in other CEWG meetings

1

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1/21/19

## Permit Parts

- Part A – Contains all the Facility and Equipment Specific Requirements
- Part B – General Conditions
- Part C – Supporting On-line Documents, Definitions, Acronyms, etc.

Part	FACILITY SPECIFIC REQUIREMENTS	Page #	High Level Summary
A100	Introduction	A3	What permit this is and permit fee requirements
A101	Permit Duration (expiration)	A3	How long the permit lasts
A102	Facility: Description	A3	Short description of facility, where it is located and what the modification is
A103	Facility: Applicable Regulations	A4	Summary of NM and EPA air quality regulations that apply to the site
A104	Facility: Regulated Sources	A5	List of regulated emission sources - fab, boilers, cooling towers
A105	Facility: Control Equipment	A6	List of abatement equipment - scrubbers, thermal oxidizers
A106	Facility: Allowable Emissions	A12	Tables of permitted emissions - for site, some by specific equipment
A107	Facility: Allowable Startup, Shutdown, & Maintenance (SSM)	A13	Emissions limits for start up, shutdown and maintenance
A108	Facility: Allowable Operations	A13	Summary of how and what the site is allowed to do within the permit
A109	Facility: Reporting Schedules	A14	Details on the semi-annual report and when it is due
A110	Facility: Fuel Sulfur Requirements	A14	Requirements for equipment when operating on diesel fuel
A111	Facility: 20.2.61 NMAC Opacity	A14	Opacity requirements for combustion sources

2

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1/21/19

Part	FACILITY SPECIFIC REQUIREMENTS	Page #	High Level Summary
A200	Oil and Gas Industry – Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A300	Construction Industry – Aggregate – Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A400	Construction Industry – Asphalt – Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A500	Construction Industry – Concrete – Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A600	Power Generation Industry – Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A700	Solid Waste Disposal (Landfills) Industry– Not Required	A15	Not applicable to Intel NM site because site does not own/operate this type of source
A800	Boilers	A15	Monitoring, recordkeeping and reporting requirements for Boilers
A801	Thermal Oxidizers	A16	Monitoring, recordkeeping and reporting requirements for Thermal Oxidizers
A802	Process Scrubbers	A18	Monitoring, recordkeeping and reporting requirements for Scrubbers
A803	Ammonia Treatment Systems	A19	Monitoring, recordkeeping and reporting requirements for Ammonia Treatment Systems
A804	BSSW Treatment System	A19	Monitoring, recordkeeping and reporting requirements for BSSW Treatment System
A805	Cooling Towers	A19	Monitoring, recordkeeping and reporting requirements for Cooling Towers
A806	Plant Site Emission Limits	A20	Monitoring, recordkeeping and reporting requirements for the Plant Site Emissions Limit

Part B GENERAL CONDITIONS	
B100	Introduction
B101	Legal
B102	Authority
B103	Annual Fee
B104	Appeal Procedures
B105	Submittal of Reports and Certifications
B106	NSPS and/or MACT Startup, Shutdown, and Malfunction Operations
B107	Startup, Shutdown, and Maintenance Operations
B108	General Monitoring Requirements
B109	General Recordkeeping Requirements
B110	General Reporting Requirements
B111	General Testing Requirements
B112	Compliance
B113	Permit Cancellation and Revocation
B114	Notification to Subsequent Owners
B115	Asbestos Demolition
B116	Short Term Engine Replacement
Part C MISCELLANEOUS	
C100	Supporting On-Line Documents
C101	Definitions
C102	Acronyms
C103	Appendix X – HAPs List

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## Next Steps

- Review permit in sections as time allows in the CEWG meetings

4

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