



May 28, 2024

Ms. Patty Jacobs
Department of Environmental Quality
Northwest Region – Air Quality Program
700 NE Multnomah St., Suite 600
Portland, Oregon 97232-5263

**Re: Intel Corporation, Aloha and Gordon Moore Park at Ronler Acres Campuses,
ACDP 34-2681-ST-01 Calendar Year 2023 Annual Report [Revised]**

Dear Ms. Jacobs:

In accordance with the requirements set forth in Oregon Department of Environmental Quality (ODEQ) Permit ACDP 34-2681-ST-01 (dated 1/22/16) Condition 77.b., Intel Corporation (Intel) is submitting three (3) copies of this annual report.

During calendar year 2023, there was one instance of deviations from Permit Conditions 46.b., 46.c., and 46.e. regarding maintenance operations of emergency reciprocating internal combustion engine (RICE) equipment, Permit Condition 47.e. regarding maintenance Recordkeeping, and Permit Condition 72 regarding “prompt” reporting of deviations. This deviation report, submitted on September 6, 2023, was submitted to self-disclose realized maintenance gaps in select emergency RICE in previous years. There were no reportable instances of bypasses during CY2023.

- 77.b.ii.: The emission fee report
77.b.iii.: A summary of the Excess Emissions and Upset log
77.b.iv.: The annual certification that the risk management plan is being properly implemented
77.b.v.: The type and amount of fuel combusted
77.b.vi.: The calculated 12-month rolling emission rates for PM, PM₁₀, PM_{2.5}, SO₂, CO, NO_x, VOC, Fluorides, combined HAPs and individual HAPs

NOTES:

- Reporting for individual HAPs is only required for pollutants with emission rates of 0.1 or more tons/yr.
- The GHG emissions report was submitted on March 29th, 2024, as per OAR 340, Division 215.
- An update to the previously submitted GHG emissions for CY2023 are included in attachment B. The previously submitted GHG emissions did not include emissions from Trimix wastewater treatment sources, and other minor updates were made to GHG emission calculation inputs including tool DRE, tool downtime, and an update to heat transfer fluids purchases.

- 77.b.vii.: Revisions of the pollutant capture efficiency function used for compliance emission calculations in condition 60.
- 77.b.viii.: A summary of the physical changes, additions and/or process modifications as well as the pollution prevention project(s) performed to offset emission increases associated with these changes/modifications, pre-approved pursuant to Condition 16. In addition, the permittee must identify and summarize any change(s) with the associated emission increase of five (5) or more tons of VOC or one (1) or more tons of any HAP on a yearly basis.
- 77.b.ix.: Summary of complaints relating to air quality received by permittee during the year.
- 77.b.x.: List of major maintenance performed on pollution control equipment.
- 77.b.xi.: There are no applicable Subpart Dc specific reporting requirements for affected facilities that are exclusively natural gas fired.

77.b.ii.: Emission fee report:

Attachment A to this annual report includes Form F1101 as the emission fee report.

77.b.iii.: Summary of the Excess Emissions and Upset log:

There were no excess emissions or upset events in calendar year 2023.

77.b.iv.: Annual certification that the risk management plan (RMP) is being properly implemented:

The Ronler Acres campus has an RMP that was last updated in December of 2023. The RMP is current and is implemented as required. The Aloha campus does not store regulated substances in quantities which exceed the RMP applicability threshold quantities, and therefore does not have an RMP.

77.b.v.: The type and amount of fuel combusted:

The Gordon Moore Park at Ronler Acres and Aloha campuses only combust natural gas and diesel fuel. The diesel fuel is fired within the emergency generators and fire pumps, while natural gas is fired in boilers, RCTOs, heaters, and Point of Use (POU) abatement devices. The quantity of these fuels combusted in 2023 are summarized below.

- Diesel Fuel Combusted
 - Aloha: 2,419 gallons
 - Ronler Acres: 75,628 gallons
 - Total: 78,047 gallons
- Natural Gas Combusted
 - Aloha: 170 MMscf
 - Ronler Acres: 1,595 MMscf
 - Total: 1,765 MMscf

77.b.vi.: Calculated 12-month rolling emissions:

Attachment B to this annual report includes the calculated 12-month rolling emission rates for PM, PM₁₀, PM_{2.5}, SO₂, CO, NO_x, VOC, GHG, Fluorides, combined HAPs, and individual HAPs with annual emissions of

0.1 or more tons/yr. VOC emissions include both controlled and uncontrolled VOC emissions from the site.

77.b.vii.: Revisions of the pollutant capture efficiency function used for compliance emission calculations in condition 60:

No revisions were made to pollutant capture efficiencies used for compliance emission calculations in condition 60.

77.b.viii.: Summary of physical changes pursuant to Condition 16:

During calendar year 2023, there were no physical changes, additions and/or process modifications or associated pollution prevention projects performed to offset emission increases in accordance with Permit ACDP 34-2681-ST-01 Condition 16 regarding Operational Flexibility.

77.b.ix.: Summary of complaints:

During calendar year 2023, there were three (3) formal complaints or inquiries. All complaints were investigated by Intel by reviewing manufacturing and pollution abatement equipment operations. All investigations determined that manufacturing operations were normal and all pollution abatement equipment was operational and within specifications. A detailed tracking log is maintained onsite and available for inspection upon request.

77.b.x.: List of major maintenance performed on pollution control equipment:

Attachment C to this annual report includes a list of major maintenance performed on the RCTOs, scrubbers, and WESPs at the Ronler Acres and Aloha campuses. All maintenance records (major and minor) are maintained onsite within the Maximo system and available for inspection upon request.

77.b.xi.: NSPS Subpart Dc reporting requirements:

Intel continues to fire natural gas exclusively in all boilers at the Ronler Acres and Aloha campuses. Therefore, there are no applicable Subpart Dc reporting requirements.

Statement of Certification (as required by Permit Condition 74):
Based on information and belief formed after reasonable inquiry, the statements and information in this document and any attachments are true, accurate and complete. I also certify that all statements made concerning compliance, which are based on monitoring required by the permit but not required to be submitted to DEQ, are true, accurate and complete based on information and belief formed after reasonable inquiry.

Jeffrey Birdsall

VP, Technology Development
General Manager, LTD Manufacturing

Name of designated
responsible official

Title of responsible official

Jeffrey L Birdsall

May 29, 2024

Signature of responsible official

Date

Very sincerely,

Michael Anders

May 28, 2024

Michael Anders

OR Environmental Compliance Manager

cc. Site Air Correspondence File

Intel Corporation

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Attachment A:

DEQ Form F1101



DEQ

State of Oregon
Department of
Environmental
Quality

Total Emissions by Regulated Pollutant

FORM F1101

1. Reporting year: 2023	
2. Facility name: Intel Corporation - Aloha & Ronler Acres	4. Permit number: ACDP 34-2681-ST-01
3. Aloha Campus, 3585 SW 198th Ave. Aloha, OR 97007 Mailing street address or PO Box Ronler Acres, 2501 NE Century Blvd, Hillsboro, OR 97124	5. Michael Anders, OR Compliance Manager Contact name and title (971) 563-4869
Mailing city, state and ZIP code	Phone number with area code
6. Emissions (in tons) by regulated air pollutant subject to fees for the reporting year:	
PM ₁₀ *	35
or PM	
or PM _{2.5}	
or TSP	
SO ₂	39
NO _x (as NO ₂)	197
VOC	178
* Report only one particulate category. If permit has a PSEL for PM ₁₀ , report emissions of PM ₁₀ . If permit has a PSEL for particulate matter (PM) and not PM ₁₀ , report emissions of PM. If permit has a PSEL for PM _{2.5} and not PM ₁₀ or PM, report emissions of PM _{2.5} . If permit has a PSEL for total suspended particulate (TSP) and not PM ₁₀ , PM or PM _{2.5} , report emissions of TSP.	
7. Total emissions (in tons) of pollutants subject to fees for the reporting year: 449	
8. Statement of certification:	
I have reviewed this report and all supporting documentation in their entirety and to the best of my knowledge, information, and belief formed after reasonable inquiry, the statements and information contained herein are true, accurate and complete.	
Jeffrey Birdsall Name of designated responsible official <i>Jeffrey L Birdsall</i>	VP, Technology Development GM, LTD Manufacturing Title of responsible official May 29, 2024
Signature of responsible official	Date

Attachment B:

Calendar Year 2023 12-Month Rolling Emission Inventory [Revised]

Pollutant	RY2023 12-month Total Emissions (Ronler Acres and Aloha Facilities combined)												PSEL tons/year	Units
	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23		
PM	24.1	23.1	24.4	23.1	22.8	23.3	23.9	24.1	24.4	23.7	24.8	24.3	41	
PM10	18.8	17.7	19.0	17.7	17.4	18.0	18.5	18.8	19.1	18.3	19.4	18.9	35	
PM2.5	14.5	13.4	14.7	13.5	13.1	13.7	14.2	14.5	14.8	14.0	15.1	14.6	31	
NOx	138.0	136.2	134.8	135.8	133.5	131.2	132.9	135.8	139.0	143.5	146.0	148.4	197	
CO	154.1	151.3	149.5	151.1	150.4	147.4	147.5	149.4	151.9	156.4	159.7	162.6	229	
SO2	3.9	3.6	3.8	4.0	4.0	4.3	4.5	4.7	4.8	5.1	5.4	5.4	39	
VOC	72.4	69.0	65.4	61.4	58.7	55.1	52.1	50.1	48.4	50.4	48.4	48.5	178	
Fluorides	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.5	1.6	6.4	
Total HAPs	6.86	6.77	6.64	6.45	6.31	6.06	5.72	5.68	4.76	4.72	4.73	4.80	24	
Individual HAP - HF	5.06	4.39	4.61	4.38	4.15	3.92	3.68	3.49	3.11	3.00	2.95	2.95	9	
Individual HAP - HCl	1.21	1.31	1.48	1.53	1.63	1.70	1.75	1.92	1.37	1.45	1.53	1.57	9	
Individual HAP - Methanol	0.21	0.21	0.22	0.22	0.20	0.16	0.16	0.17	0.17	0.17	0.20	0.20	9	
GHG**	473,859	458,253	442,647	427,040	411,434	395,828	380,222	364,615	349,009	333,403	317,797	302,191	819,000	

Notes:

* All individual HAPs with annual emissions above 0.1 tons per year are reported above

Attachment C:

List of Major Maintenance on Pollution Control Equipment in Calendar Year 2023

RA-D1X	D1X-WSP133-2-30	D1X EXSC Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP133-2-30	2023-12-08
RA-D1X	D1X-WSP138-7-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-7-22	2023-02-12
RA-D1X	D1X-WSP138-5-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-5-20	2023-04-01
RA-D1X	D1X-WSP138-6-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-6-21	2023-04-29
RA-D1X	D1X-WSP138-7-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-7-22	2023-08-20
RA-D1X	D1X-WSP138-5-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-5-20	2023-10-13
RA-D1X	D1X-WSP138-6-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-6-21	2023-11-20
RA-D1X	D1X-WSP138-7-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-7-22	2023-05-21
RA-D1X	D1X-WSP138-5-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-5-20	2023-07-29
RA-D1X	D1X-WSP138-6-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-6-21	2023-08-26
RA-D1X	D1X-WSP138-5-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-5-20	2023-01-03
RA-D1X	D1X-WSP138-6-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-6-21	2023-01-30
RA-D1X	D1X-WSP138-7-20	D1X Particulate Matter Abatement (WESP) (Sequenced) PM D1X-WSP138-7-22	2023-11-06
RA-F20	F20-SCI33-2-111	EXSC Scrubber Sequenced PM F20-SCI33-2-111	2023-10-21
RA-F20	F20-SCI33-3-111	EXSC Scrubber Sequenced PM F20-SCI33-3-111	2023-09-03
RA-F20	F20-SCI33-1-111	EXSC Scrubber Sequenced PM F20-SCI33-1-111	2023-05-27
RA-F20	DIB-AIT133-1-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-09A	2023-02-01
RA-F20	DIB-AIT133-1-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-09A	2023-05-20
RA-F20	DIB-AIT133-1-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-09A	2023-08-18
RA-F20	DIB-AIT133-1-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-09A	2023-11-22
RA-F20	DIB-AIT133-1-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-107	2023-02-01
RA-F20	DIB-AIT133-1-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-107	2023-05-20
RA-F20	DIB-AIT133-1-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-107	2023-08-18
RA-F20	DIB-AIT133-1-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-1-107	2023-11-22
RA-F20	DIB-AIT133-2-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-09A	2023-01-04
RA-F20	DIB-AIT133-2-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-09A	2023-04-19
RA-F20	DIB-AIT133-2-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-09A	2023-07-06
RA-F20	DIB-AIT133-2-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-09A	2023-10-21
RA-F20	DIB-AIT133-2-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-107	2023-01-04
RA-F20	DIB-AIT133-2-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-107	2023-04-19
RA-F20	DIB-AIT133-2-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-107	2023-07-06
RA-F20	DIB-AIT133-2-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-2-107	2023-10-21
RA-F20	DIB-AIT133-3-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-09A	2023-02-20
RA-F20	DIB-AIT133-3-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-09A	2023-06-02
RA-F20	DIB-AIT133-3-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-09A	2023-09-12
RA-F20	DIB-AIT133-3-09A	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-09A	2023-12-02
RA-F20	DIB-AIT133-3-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-107	2023-02-20
RA-F20	DIB-AIT133-3-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-107	2023-06-02
RA-F20	DIB-AIT133-3-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-107	2023-09-12
RA-F20	DIB-AIT133-3-107	Rosemount Model 56 pH/Conductivity Transmitter Calibration Quartlery Hierarchy DIB-AIT133-3-107	2023-12-02
RA-F20	DIB-VOC138-1-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC138-1-22	2023-09-11
RA-F20	DIB-VOC138-2-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC138-2-22	2023-07-29
RA-F20	F20-SCI33-2-111	EXSC Scrubber Sequenced PM F20-SCI33-2-111	2023-04-25
RA-F20	F20-SCI33-3-111	EXSC Scrubber Sequenced PM F20-SCI33-3-111	2023-02-20
RA-F20	F20-SCI33-1-111	EXSC Scrubber Sequenced PM F20-SCI33-1-111	2023-11-22
RA-F20	DIB-FIT133-1-05	SCRUBBER ANNUAL--Flow Transmitter Calibration DIB-FIT133-1-05	2023-11-23
RA-F20	DIB-VOC-138-3-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC-138-3-22	2023-10-20
RA-F20	DIB-VOC138-1-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC138-1-22	2023-03-20
RA-F20	DIB-VOC138-2-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC138-2-22	2023-01-23
RA-F20	DIB-FIT138-1-120	VOC ANNUAL--Flow Transmitter Calibration DIB-FIT138-1-120	2023-03-20
RA-F20	DIB-FIT138-2-120	VOC ANNUAL--Flow Transmitter Calibration DIB-FIT138-2-120	2023-01-23
RA-F20	DIB-TE138-1-45A	VOC ANNUAL--Temperature Simulation Calibration DIB-TE138-1-45A	2023-03-20
RA-F20	DIB-TE138-1-74A	VOC ANNUAL--Temperature Simulation Calibration DIB-TE138-1-74A	2023-03-20
RA-F20	DIB-TE138-2-45A	VOC ANNUAL--Temperature Simulation Calibration DIB-TE138-2-45A	2023-01-22
RA-F20	DIB-TE138-2-74A	VOC ANNUAL--Temperature Simulation Calibration DIB-TE138-2-74A	2023-01-22
RA-F20	DIB-TET138-1-56A	VOC ANNUAL--Temperature Simulation Calibration DIB-TET138-1-56A	2023-03-20
RA-F20	DIB-TET138-2-56A	VOC ANNUAL--Temperature Simulation Calibration DIB-TET138-2-56A	2023-01-22
RA-F20	DIB-VOC-138-3-22	VOC Abatement System (EXVO) (Sequenced) PM DIB-VOC-138-3-22	2023-04-10