Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124-6497

(503) 696-8080

April 27, 1999

DEPT OF ENVIRONMENTAL QUALITY
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APR 29 1999

NORTHWEST REGION

Mr. Lyle W. Christensen
DEQ Northwest Region Office
2020 SW Fourth, Suite 400
Portland, OR 97201

Dear Mr. Christensen,

This letter is being submitted in follow-up to our 4/26/99 phone conversation regarding a water release from a cooling tower at Intel's Hawthorn Farm facility. Additional information has been obtained and the following is a summary of the incident, root cause, and preventative actions that Intel has taken to prevent future occurrences.

I received notification Monday morning, 4/26/99, that a release of chilled water had occurred over the weekend from a cooling tower at Intel's Hawthorn Farm campus. The release was caused by improper adjustments to manual control valves, which balance the facility's system of four cooling towers. The improper valve configuration resulted in overloading one of the cooling towers, which caused the system to overflow to a nearby storm drain. Approximately 1,000 gallons of water was released over the course of several hours. Upon discovery, the system was shut down to eliminate the leak. The Oregon Department of Environmental Quality was notified of the release by phone on Monday, 4/26/99. A separate message was left with the Unified Sewerage Agency.

An internal investigation was conducted, which revealed that the system's performance was negatively affected by the changes that had been made to the manual control valves. The system was rebalanced and was returned to its optimum configuration. A visual inspection of the storm sewer's outfall to Dawson Creek verified that no environmental impact had occurred.

Intel is confident that the combination of returning the system to its optimized state, daily monitoring, and regular, proceduralized servicing of the cooling tower units will prevent a similar release from occurring in the future. For more information, please feel free to contact me by phone at (503) 696-4281.

Sincerely,

Ryan Rodman
Environmental Engineer
Intel Corporation, Hawthorn Farms campus

cc: Kathy Caldwell, USA
file

An Equal Opportunity Employer

NWR

Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124-6497

(503) 696-8080

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DEPT OF ENVIRONMENTAL QUALITY
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FEB 12 1997
NORTHWEST REGION

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February 06, 1997

Mr. Lyle W. Christensen
Environmental Specialist, Water Quality Division
Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

Re: Intel Hawthorn Farms Campus NPDES Permit Monitoring Results

Dear Mr. Christensen,

The following table summarizes the monthly non-contact cooling water discharge permit reporting requirements for the 1996-97 monitoring period for our 0100-J General Permit (file no. 100753):

	Effluent Flow(MGD)	Temperature (F)	pH
January	0.0895	75	7.95
February	0.0872	59	7.28
March	No Discharge		
April	No Discharge		
May	No Discharge		
June	No Discharge		
July	No Discharge		
August	No Discharge		
September	No Discharge		
October	No Discharge		
November	No Discharge		
December	No Discharge		
January 1997	No Discharge		

Intel HF stopped discharging water in March of 1996. At this time we have decided to keep our permit current. However, we will discontinue sending in monthly discharge reports per our conversation on the phone (2/6/97). Intel HF will resume reporting if and when discharging resumes.

I certify that the information presented above is true, accurate and complete and that I am aware of significant penalties for incorrect information. If you have any questions regarding monitoring results, please call me at (503) 696-2049. In the future, the new 3320 form will be used.

Sincerely,

Bryan Hopkins

Bryan Hopkins
Environmental Engineer
Intel Corporation

cc: File

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NWR

FV

Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124-6497

(503) 696-8080

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JAN 6 - 1997

NORTHWEST REGION

January 2, 1997

Mr. Lyle W. Christensen
Environmental Specialist, Water Quality Division
Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

Re: Intel Hawthorn Farms Campus NPDES Permit Monitoring Results

Dear Mr. Christensen,

LWL
WAQ

The following table summarizes the monthly non-contact cooling water discharge permit reporting requirements for the 1996 monitoring period for our 0100-J General Permit (file no. 100753):

	Effluent Flow(MGD)	Temperature (F)	pH
January	0.0895	75	7.95
February	0.0872	59	7.28
March	No Discharge		
April	No Discharge		
May	No Discharge		
June	No Discharge		
July	No Discharge		
August	No Discharge		
September	No Discharge		
October	No Discharge		
November	No Discharge		
December	No Discharge		

I certify that the information presented above is true, accurate and complete and that I am aware of significant penalties for incorrect information. If you have any questions regarding monitoring results, please call me at (503) 696-2049. In the future, the new 3320 form will be used.

Sincerely,

Bryan Hopkins

Bryan Hopkins
Environmental Engineer
Intel Corporation

cc: File

An Equal Opportunity Employer

File: WQ/WA Co/ Intel

EV

Intel Corporation
5200 N.E. Elam Young P
Hillsboro, OR 97124-649?

(503) 696-8080

DEPT OF ENVIRONMENTAL QUALITY
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DEC 19 1995
NORTHWEST REGION

December 15, 1995

Mr. Lyle W. Christensen
Environmental Specialist, Water Quality Division
Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

Re: Intel Hawthorn Farms Campus NPDES Permit Monitoring Results

Dear Mr. Christensen,

WA Co

The following table summarizes the monthly non-contact cooling water discharge permit reporting requirements for the 1995 monitoring period for our 0100-J General Permit (file no. 100753): IND GEN 01

	Effluent Flow(MGD)	Temperature (F)	pH
January	0.0445	69	7.76
February	0.0506	72	7.81
March	0.0461	70	7.68
April	0.0579	70	7.71
May	0.0582	69	7.74
June	0.0867	69	7.89
July	0.0759	70	7.79
August	0.0801	76	7.74
September	0.0909	70	7.79
October	0.0983	74	7.90
November	0.1042	68	7.82
December	0.0831	62	8.06

In addition, Intel's Hawthorn Farms Campus 0100-J General Permit is schedule to expire on December 31, 1995. A permit renewal was submitted by Intel Corporation on May 12, 1995 as requested by the Department of Environmental Quality, in excess of the requested 180 day notice to permit expiration. However, no permit renewal has been received by Intel to date. Please verify that no outstanding information is required for the re-issuance of the 0100-J General Permit before the expiration of the current permit, as issued on December 2, 1994.

If you have any questions regarding either the permit renewal or monitoring results, please call me at (503) 696-5978.

Sincerely,

Elizabeth Lawler

Elizabeth Lawler
Environmental Engineer
Intel Corporation

cc: File

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H Q

Intel Corporation
5200 N.E. Elam Young Parkway
Hillsboro, OR 97124-6497

(503) 696-8080

DEPT OF ENVIRONMENTAL QUALITY
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JAN 18 1995
NORTHWEST REGION

January 12, 1995

Mr. Lyle W. Christensen
Environmental Specialist, Water Quality Division
Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987
(503) 229-5295

Re: Hawthorn Farms Campus NPDES Permit Monitoring Results

Dear Mr. Christensen,

The following table summarizes Intel's Hawthorn Farms monthly non-contact cooling water discharge permit reporting requirements for the 1994 monitoring period for our 0100-J permit (file no. 100753). Please note the permit was issued on December 2, 1994.

	Effluent Flow (MGD)	**Temperature (F)**	**pH**
December 1994	0.045	83.0	7.52

If you have any questions about the results, please call me at (503) 696-5978.

Sincerely,

Elizabeth Lawler

Elizabeth Lawler
Environmental Engineer
Intel Corporation

cc: File

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