



# AIR OPERATING PERMIT

Puget Sound Clean Air Agency  
1904 3rd Ave., Suite 105  
Seattle, Washington 98101

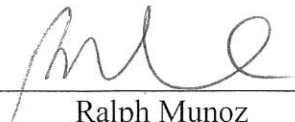
Issued in accordance with the provisions of Puget Sound Clean Air Agency (previously known as Puget Sound Air Pollution Control Agency (PSAPCA)) Regulation I, Article 7 and Chapter 173-401 WAC.

Pursuant to Puget Sound Clean Air Agency Regulation I, Article 7 and Chapter 173-401 WAC King County Solid Waste Division Cedar Hills Regional Landfill is authorized to operate subject to the terms and conditions in this permit.

<b>PERMIT NO.: 10138</b>	<b>DATE OF ISSUANCE: January 4, 2001</b> Administrative Revision 1.....November 1, 2002 Administrative Revision 2.....March 25, 2004 Administrative Revision 3.....November 14, 2019
<b>ISSUED TO: King County Solid Waste Division Cedar Hills Regional Landfill</b>	
<b>PERMIT EXPIRATION DATE: January 4, 2006</b>	

SIC Code, Primary:	4953
NAICS Code	562212
Nature of Business:	Municipal Solid Waste Landfill
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Puget Sound Clean Air Agency Approval:

  
Ralph Munoz  
Permit Engineer

  
for Carole Cenci, P.E.  
Compliance Manager

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## **I. EMISSION LIMITS AND PERFORMANCE STANDARDS**

The following tables list the citation for the “applicable requirement” in the second column. The third column (Date) contains the adoption or effective date of the requirement. In some cases, the effective dates of the Federally Enforceable Requirement and the State Only Requirement are different because only rules approved by EPA through Sections 110, 111, and 112 of the federal Clean Air Act are federally enforceable and either the state has not submitted the regulation to the EPA or the EPA has not approved it.

The first column is used as an identifier for the requirement, and the fourth (Requirement Paraphrase) column paraphrases the requirement. The first and fourth columns are for information only and are not enforceable conditions of this permit. The actual enforceable requirement is embodied in the requirement cited in the second and third columns.

The fifth column (Monitoring, Maintenance & Recordkeeping Method) identifies the methods described in Section II of the permit. Following these methods is an enforceable requirement of this permit. The sixth (Emission Standard Period) column identifies the averaging time for the reference test method. The last column (Reference Test Method) identifies the reference method associated with an applicable emission limit that is to be used when a source test is required. In some cases where the applicable requirement does not cite a test method, one has been added.

In the event of conflict or omission between the information contained in the fourth and sixth columns and the actual statute or regulation cited in the second column, the requirements and language of the actual statute or regulation cited shall govern. For more information regarding any of the requirements cited in the second and third columns, refer to the actual requirements cited.

**A. FACILITY-WIDE APPLICABLE REQUIREMENTS**

The requirements in this section apply facility-wide to all the emission units regulated by this permit except that monitoring methods specified elsewhere in the permit for specific applicable requirements for specific emission units or activities supersede the general monitoring requirements listed in Section I.A.

**Table 1 Facility-Wide Applicable Requirements (Federally Enforceable)**

<b>Reqmt. No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Reference Test Method</b>
I.A.1	<p>Puget Sound Clean Air Agency Reg I: 9.03  <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.03 upon its adoption into the SIP</i></p> <p>WAC 173-400-040(1)  <i>This requirement shall be superseded by the 10/23/98 version of WAC 173-400-040(1) upon its adoption into the SIP</i></p>	<p>9/08/94</p> <p>8/20/93</p>	<p>Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour</p>	<p>II.A.1(a) Opacity Monitoring</p>	<p>More than 3 min in any 1 hr</p>	<p>Ecology Method 9A          (See Section IX)</p>

Reqmt. No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.2	Puget Sound Clean Air Agency Reg I: 9.07  WAC 173-400-040(6) first paragraph only. <i>This requirement shall be superseded by the 10/23/98 version of WAC 173-400-040(6) upon its adoption into the SIP</i>	4/14/94  8/20/93	Shall not emit SO <sub>2</sub> in excess of 1,000 ppmv (dry) corrected to 7% O <sub>2</sub> for fuel burning equipment	No monitoring required	At least 1-hr per run	EPA Method 6C (See 40 CFR Part 60, Appendix A, July 1, 1998)
I.A.3	Puget Sound Clean Air Agency Reg I: 9.09 <i>This requirement shall be superseded by the 4/9/98 version of Reg. I: 9.09 upon its adoption into the SIP</i>  WAC 173-400-050(1) <i>This requirement shall be superseded by the 10/23/98 version of WAC 173-400-050(1) upon its adoption into the SIP</i>	2/10/94  8/20/93	Shall not emit particulate matter in excess of 0.05 gr/dscf corrected to 7% O <sub>2</sub> from fuel burning equipment and combustion sources (applies to equipment that produces hot air, hot water, steam, or other heated fluids by external combustion of fuel)	II.A.1(a) Opacity Monitoring	At least 1-hr per run	Puget Sound Clean Air Agency Method 5 (See Section IX)

Reqmt. No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.4	<p>Puget Sound Clean Air Agency Reg I: 9.11(a)  <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.11(a) upon its adoption into the SIP</i></p> <p>Puget Sound Clean Air Agency Reg I: 9.15(d)  <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.11(a) upon its adoption into the SIP</i></p> <p>WAC 173-400-040(5)  <i>This requirement shall be superseded by the 10/23/98 version of WAC 173-400-040(5) upon its adoption into the SIP</i></p>	<p>6/09/83</p> <p>8/10/89</p> <p>8/20/93</p>	<p>Shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property</p>	<p>II.A.1(b) Complaint Response            II.A.1(c) Facility-Wide Inspections</p>	<p>N/A</p>	<p>N/A</p>
I.A.5	<p>Puget Sound Clean Air Agency – Order of Approval No. 7676            Condition No. 8</p>	<p>9/22/99</p>	<p>Shall maintain and follow a complaint response plan</p>	<p>II.A.1(b) Complaint Response</p>	<p>N/A</p>	<p>N/A</p>

Reqmt. No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.6	<p>Puget Sound Clean Air Agency Reg I: 9.15(a)  <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.15(a) upon its adoption into the SIP</i></p> <p>WAC 173-400-040(3)            WAC 173-400-040(8)  <i>These requirements shall be superseded by the 10/23/98 versions of SIP WAC 173-400-040(3)&amp;(8) upon their adoption into the SIP</i></p>	<p>8/10/89</p> <p>8/20/93            8/20/93</p>	Must employ BACT for fugitive dust	<p>II.A.1(b) Complaint Response            II.A.1(c) Facility-Wide Inspections</p>	N/A	N/A
I.A.7	<p>Puget Sound Clean Air Agency Reg I: 9.15(b)  <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.15(a) upon its adoption into the SIP</i></p>	8/10/89	Must employ measures to prevent track-out and spillage of particulate matter on paved public roadways	<p>II.A.1(b) Complaint Response            II.A.1(c) Facility-Wide Inspections</p>	N/A	N/A

<b>Reqmt. No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Reference Test Method</b>
I.A.8	Puget Sound Clean Air Agency Reg I: 9.15(c) <i>This requirement shall be superseded by the 3/11/99 version of Reg. I: 9.15(a) upon its adoption into the SIP</i>	8/10/89	Shall not emit fugitive dust from any fuel burning equipment, equipment used in a manufacturing process, or control equipment	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A
I.A.9	Puget Sound Clean Air Agency Reg I: 9.20(b)	6/09/88	Must maintain equipment not subject to Puget Sound Clean Air Agency Regulation I, Section 9.20(a) in good working order	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A
I.A.10	Puget Sound Clean Air Agency Reg I: 7.09(b) <i>This requirement shall be superseded by the 9/10/98 version of Reg. I: 7.09(b)) upon its adoption into the SIP</i>	9/12/96	Must develop and implement an O&M Plan to assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II and III	II.B Operation and Maintenance (O&M) Plan Requirements II.A.1(c) Facility-Wide Inspections II.A.1(d) Maintenance and Repair of Insignificant Emission Units	N/A	N/A

N/A = Not Applicable



The following facility-wide requirements are **not** federally enforceable. They are enforceable only by the Puget Sound Clean Air Agency and the Washington State Department of Ecology.

**Table 2 Facility-Wide Applicable Requirements (Non-Federally Enforceable)**

Reqmt. No.	State/Puget Sound Clean Air Agency Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.11	Puget Sound Clean Air Agency Reg I: 9.03 WAC 173-400-040(1)	03/11/99 10/23/98	Shall not emit air contaminants in excess of 20% opacity for more than 3 minutes per hour	II.A.1(a) Opacity Monitoring	More than 3 min. in any 1 hr	Ecology Method 9A (See Section IX)
I.A.12	WAC 173-400-040(6)	10/23/98	Shall not emit SO <sub>2</sub> in excess of 1,000 ppmv (dry) corrected to 7% O <sub>2</sub> for fuel burning equipment	No monitoring required	At least 1-hr per run	EPA Method 6C (See 40 CFR Part 60, Appendix A, July 1, 1998)
I.A.13	Puget Sound Clean Air Agency Reg I: 9.10(a)	06/09/88	Shall not emit HCl in excess of 100 ppm (dry) corrected to 7% O <sub>2</sub> for combustion sources	No monitoring required	At least 1-hr per run	EPA Method 26A (See 40 CFR Part 60, Appendix A; July 1, 1998)
I.A.14	Puget Sound Clean Air Agency Reg I: 9.11(a) WAC 173-400-040(5)	03/11/99 10/23/98	Shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A

Reqmt. No.	State/Puget Sound Clean Air Agency Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.15	WAC 173-400-040(4)	08/20/93	Must use recognized good practice and procedures to reduce odors which may unreasonably interfere with any other property owners' use and enjoyment of their property	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A
I.A.16	Puget Sound Clean Air Agency Reg I: 9.15(a)	3/11/99	<p>It shall be unlawful for any person to cause or allow visible emissions of fugitive dust unless reasonable precautions are employed to minimize the emissions. Reasonable precautions include, but are not limited to, the following:</p> <p>(1) The use of control equipment, enclosures, and wet (or chemical) suppression techniques, as practical, and curtailment during high winds;</p> <p>(2) Surfacing roadways and parking areas with asphalt, concrete, or gravel;</p> <p>(3) Treating temporary, low-traffic areas (e.g., construction sites) with water or chemical stabilizers, reducing vehicle speeds, constructing pavement or rip rap exit aprons, and cleaning vehicle undercarriages before they exit to prevent the track-out of mud or dirt onto paved public roadways; or</p> <p>(4) Covering or wetting truck loads or allowing adequate freeboard to prevent the escape of dust-bearing materials</p>	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A

Reqmt. No.	State/Puget Sound Clean Air Agency Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Reference Test Method
I.A.17	WAC 173-400-040(2)	8/20/93	Shall not deposit particulate matter beyond property boundary in sufficient quantity to interfere unreasonably with the use and enjoyment of the property	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A
I.A.18	RCW 70.94.040	1996	Shall not emit air contaminants in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property or cause a violation of RCW 70.94 or any regulation adopted hereunder	II.A.1(b) Complaint Response II.A.1(c) Facility-Wide Inspections	N/A	N/A

N/A = Not Applicable

**B. EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS**

The requirements in Section I.B only apply to the specific emission units cited; however, the requirements in Section I.A. also apply to the specific emission units or activities described in Section I.B. If the monitoring, maintenance, and recordkeeping method for any requirement in Section I.A is more extensive for specific emission units, the requirement is repeated in this section with the additional monitoring, maintenance and recordkeeping requirements.

**1. Emission Activity #1 (EA-1): Landfill Gas Collection and Destruction Operations**

The Municipal Solid Waste (MSW) Landfill currently covers 920 acres with approximately 406 acres available for landfilling and support functions. The primary source of MSW landfill emissions is biodegradation of which the main products are methane, nonmethane organic compounds (NMOC), and CO<sub>2</sub>. The landfill gas control system provides collection and destruction of methane and NMOC. Active gas collection uses a blower-created vacuum and a large number of well points to extract landfill gas from the fill. Passive gas collection relies on pressure buildup within a landfill cell to provide the motive force to move gas to the open flare.

**Table 3 Emission Activity 1 (EA-1): Landfill Gas Collection and Destruction Operations**

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
<b>Landfill Gas Collection System</b> <i>These requirements apply to the North, South, and Southeast Flare Stations</i>						
EA 1.1	40 CFR 60.11(d)	6/4/87	Operate consistent with good air pollution control practice for minimizing emissions	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A

<b>Reqmt No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 1. 2	Puget Sound Clean Air Agency Reg I: 9.20(a)	6/09/88	Must maintain sources approved under Puget Sound Clean Air Agency Regulation I, Article 6, in good working order	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A
EA 1. 3	Puget Sound Clean Air Agency – Order of Approval No. 3271 Condition No. 5	8/07/89	King County Solid Waste Division shall follow its Operations and Maintenance Plan for the landfill gas collection system	II.B Operation and Maintenance (O&M) Plan Requirements II.A.1(c) Facility-Wide Inspections II.A.1(d) Maintenance and Repair of Insignificant Emission Units	N/A	N/A
EA 1. 4	Puget Sound Clean Air Agency – Order of Approval No. 7676 Permit Condition No. 3	9/22/99	King County Solid Waste Division shall comply with the applicable requirements of 40 CFR 60 Subparts A and WWW	N/A	N/A	N/A
EA 1. 5	40 CFR 60.752(c) & (d)	4/10/00	King County Solid Waste Division shall maintain an operating permit under Title V until the landfill is closed	N/A	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1.6	40 CFR 60.755(e)	6/16/98	The provisions of 40 CFR 60 Subparts A and WWW apply at all times, except during periods of start-up, shutdown, or malfunction. The duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for the enclosed combustion flares or other control devices	N/A	N/A	N/A
EA 1.7	40 CFR 60.752(b)(2)(ii)	4/10/00	King County Solid Waste Division shall install a collection system that captures the gas generated within the landfill by March 22, 2002	N/A	N/A	N/A
EA 1.8	40 CFR 60.752(b)(2)(iii)(A) or (B) and 40 CFR 60.753(e)	4/10/00  6/16/98	By March 22, 2002, King County Solid Waste Division shall route the collected landfill gas either to an open flare designed and operated in accordance with 40 CFR 60.18, or to an enclosed combustion flare. The enclosed combustion flare will be designed and operated to reduce NMOC by 98 weight-percent or to a concentration of less than 20 ppm by volume, dry basis as hexane at 3 percent oxygen	N/A	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 9	40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 60.754(d)	6/16/98	The required 98% weight-percent reduction efficiency of NMOC, or the volume of NMOCs remaining in parts per million after control, shall be established by an initial performance test on the enclosed combustion flares. This test is to be completed no later than 180 days after the initial startup of each new flare	II.A.2(d) Flare Monitoring	3-One Hour Tests	Use source testing methods and equation in 40 CFR 60.753(d), EPA Method 25C, (or Method 18 for compounds listed in most recent EPA AP-42) for NMOC concentration
EA 1. 10	40 CFR 60.752(b)(2)(iii)(B)(2)	4/10/00	Operate the enclosed combustion flares within the parameter ranges established during the initial or most recent performance test.	II.A.2(d) Flare Monitoring	3-One Hour Tests	Use source testing methods and equation in 40 CFR 60.753(d), EPA Method 25C, (or Method 18 for compounds listed in most recent EPA AP-42) for NMOC concentration
EA 1. 11	40 CFR 60.752(b)(2)(iv) &(v)	4/10/00	King County Solid Waste Division shall operate the installed collection and control devices in compliance with 40 CFR 60.753, 60.755, and 60.756 until the system is capped or removed after landfill closure; and until conditions in 40 CFR 60.752(b)(2)(v) are met using source testing and equation in 40 CFR 60.754(b)	N/A	N/A	EPA Method 2E for gas flow and 25C (or Method 18 for compounds listed in most recent EPA AP-42) for NMOC concentration

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 12	40 CFR 60.753(a) and 40 CFR 60.755(b)	6/16/98	<p>King County Solid Waste Division shall operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for:</p> <p>(1) 5 years or more if active; or            (2) 2 years or more if closed or at final grade</p> <p>For the purposes of compliance with 40 CFR 60.753(a), King County Solid Waste Division shall place each well or design component as specified in the approved design plan. Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:</p> <p>(1) 5 years or more if active; or            (2) 2 years or more if closed or at final grade</p>	N/A	N/A	N/A



Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 13	40 CFR 60.753(b)  40 CFR 60.753(g)	6/16/98  6/16/98	King County Solid Waste Division shall operate the collection system with negative pressure at each wellhead except to avoid a fire or when used under a geomembrane cover or when a well is decommissioned due to declining flows  If corrective actions are taken as specified in the monitoring method, the monitored exceedance is not a violation of the operational requirements in this requirement	II.A.2(a)(1) Flow Rate Monitoring	N/A	N/A
EA 1. 14	40 CFR 60.753(c)  40 CFR 60.753(g)	6/16/98  6/16/98	King County Solid Waste Division shall operate each interior wellhead at a landfill gas temperature less than 55 degrees C (131 degrees F) and either with nitrogen at less than 20% nitrogen or oxygen at less than 5% oxygen  If corrective actions are taken as specified in the monitoring method, the monitored exceedance is not a violation of the operational requirements in this requirement	II.A.2(a)(2) Air Infiltration Monitoring	N/A	Nitrogen –EPA Method 3C, or Oxygen – EPA Method 3A with exceptions allowed by 40 CFR 60.753(c)(2)

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 15	40 CFR 60.753(d)  40 CFR 60.753(g)	6/16/98  6/16/98	Operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill  If corrective actions are taken as specified in the monitoring method, the monitored exceedance is not a violation of the operational requirements in this requirement	II.A.2(b) Quarterly Surface Monitoring for Fugitive Landfill Gas  II.A.2(c) Cover Monitoring	NA	Perimeter and traverses in pattern described in 40 CFR 60.753 (d) using EPA Method 21 as altered by 40 CFR 60.755(d)
EA 1. 16	40 CFR 60.753(e)	6/16/98	In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the system shall be closed within one hour	N/A	N/A	N/A
EA 1. 17	40 CFR 60.753(f)	6/16/98	Operate the enclosed combustion flares at all times when the collected gas is routed to the system	N/A	N/A	N/A
<b>North Flare Station</b>						
EA 1. 18	Puget Sound Clean Air Agency – Order of Approval No. 3271 Condition No. 5	8/07/89	Shall follow O&M Plan for this operation	II.B Operation and Maintenance (O&M) Plan Requirements	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 19	Puget Sound Clean Air Agency – Order of Approval No.7076 Condition No.3, and Order of Approval No. 8062 Condition No. 4	9/10/97  2/18/00	Enclosed Combustion Flares No. 4 and No. 5 – Achieve 98% destruction of all nonmethane organic compounds (NMOC)	II.A.2(d) Flare Monitoring	N/A	Shall source test by fixed gas analysis using GC-TCD (inlet), EPA Methods 4 and TO-14 (inlet and outlet), and EPA Methods 3A, 6C, 7E, and 26A (outlet), EPA Method TO-14
EA 1. 20	Puget Sound Clean Air Agency – Order of Approval No. 6002 Condition No. 8, and Order of Approval No. 7076 Condition No. 8, and Order of Approval No. 8062 Condition No. 8	6/01/95  9/10/97  2/18/00	Operate the enclosed combustion flares at temperatures and flows consistent with those used during the source tests  As measured by the continuous temperature indicator and recorders	II.A.2(d) Flare Monitoring	N/A	N/A
<b>South Solid Waste Area Passive Gas Flare</b>						
EA 1. 21	Puget Sound Clean Air Agency – Order of Approval No. 7096 Condition No. 3	9/09/97	Landfill gas shall not be allowed to vent from the open flare without combustion	II.A.2(d) Flare Monitoring	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 1. 22	Puget Sound Clean Air Agency – Order of Approval No.7096 Condition No. 4	9/09/97	The control system shall shut the supply valve to the open flare whenever the temperature sensed by the thermocouple falls below 200 degrees F	II.A.2(d) Flare Monitoring	N/A	N/A
EA 1. 23	40 CFR 60.752(b)(2)(ii) and (ii)(B)	4/10/00	Passive open flare and gas collection system shall be replaced with an active collection system by March 22, 2002 unless 40 CFR 60.752(b)(2)(v) and 60.759 (a)(3)(ii) for removing collection systems for non-productive areas are met	N/A	N/A	N/A
<b>Southeast Flare Station – Active Perimeter Migration Gas Collection and Control System - 1000 CFM Portable Skid Mount Flare</b>						
EA 1. 24	Puget Sound Clean Air Agency – Order of Approval No. 6454 Condition No. 4	5/16/96	Shall install and operate a continuous temperature indicator and recorder for portable flare	II.A.2(d) Flare Monitoring	Continuously	N/A
EA 1. 25	Puget Sound Clean Air Agency – Order of Approval No. 6454 Condition No. 5	5/16/96	Shall operate the flares at temperatures and flows consistent with those recommended by the manufacturer	II.A.2(d) Flare Monitoring	N/A	N/A
<b>Backup 1000 CFM Portable Active Gas Collection and Control, Trailer Mounted Flare</b>						
EA 1. 26	Puget Sound Clean Air Agency – Order of Approval No. 7836 Condition No. 3	10/20/99	Shall install and operate a continuous temperature indicator and recorder for portable flare	II.A.2(d) Flare Monitoring	Continuously	N/A

<b>Reqmt No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 1. 27	Puget Sound Clean Air Agency – Order of Approval No. 7836 Condition No. 4	10/20/99	Shall operate the flares at temperatures and flows consistent with those recommended by the manufacturer	II.A.2(d) Flare Monitoring	N/A	N/A
EA 1. 28	Puget Sound Clean Air Agency – Order of Approval No. 7836 Condition No. 5	10/20/99	Authorized use for all King County Landfills. Agency to be notified by letter of movements between sites	N/A	N/A	N/A
EA 1. 29	Puget Sound Clean Air Agency – Order of Approval No. 7836 Condition No. 5	10/20/99	A placard bearing the legend “Puget Sound Clean Air Agency Order of Approval No. 7836” shall be placed on or near the control panel	N/A	N/A	N/A

N/A = Not Applicable

The following requirements are **not** federally enforceable. They are enforceable only by the Puget Sound Clean Air Agency and/or the Washington State Department of Ecology.

**Table 4 Emission Activity 1 (EA-1): Landfill Gas Collection and Destruction (Non-federally Enforceable)**

<b>Reqmt No.</b>	<b>State/Puget Sound Clean Air Agency Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 1. 30	RCW 70.94.152(7)	1996	Must maintain and operate equipment requiring an NOC in good working order	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A
EA 1. 31	Puget Sound Clean Air Agency Reg I:6.11	9/09/99	Shall comply with the applicable requirements of 40 CFR 60 Subparts A and WWW	N/A	N/A	N/A

N/A = Not Applicable

**2. Emission Activity #2 (EA-2): Asbestos Waste Disposal Operations**

This emission activity covers the asbestos containing waste materials deposited in monofill trenches created in the municipal solid waste. When full, each trench location is surveyed and covered with MSW. Then a new monofill trench is created. The source of the asbestos is properly wetted, bagged, and tagged asbestos wastes from homes, commercial buildings, and underground utility services.

**Table 5 Emission Activity 2 (EA-2): Asbestos Waste Disposal Operations**

<b>Reqmt No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 2. 1	40 CFR 61.12(c)	02/24/97	Maintain and operate the source, including controls, consistent with good air pollution control practice for minimizing emissions	II.A.1(c) Facility-Wide Inspections	N/A	N/A
EA 2. 2	40 CFR 61.154 (a)	01/16/91	No visible emissions from any active waste disposal site where asbestos-containing waste material has been deposited	II.A.1(a) Opacity Monitoring II.A.1(c) Facility-Wide Inspections	N/A	N/A
EA 2. 3	40 CFR 61.154 (b)	01/16/91	Maintain a barrier between the public and the disposal site	II.A.1(c) Facility-Wide Inspections	N/A	N/A

N/A = Not Applicable

The following requirement is **not** federally enforceable. It is enforceable only by the Puget Sound Clean Air Agency and/or the Washington State Department of Ecology.

**Table 6 Emission Activity 2 (EA-2): Asbestos Waste Disposal Operations (Non-federally Enforceable)**

<b>Reqmt No.</b>	<b>State/Puget Sound Clean Air Agency Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 2. 4	Puget Sound Clean Air Agency Reg III: 2.02	9/09/99	Shall comply with the applicable requirements of 40 CFR 61 Subparts A and M	N/A	N/A	N/A

N/A = Not Applicable



**3. Emission Activity #3 (EA-3): Fueling Operations**

This emission activity consists of two (2) 4000 gallon underground gasoline storage tanks with Stage 1 & 2 vapor recovery, one (1) 20,000 gallon diesel storage tank, and one (1) 12,000 gallon diesel storage tank.

**Table 7 Emission Activity 3 (EA-3): Gasoline Fueling Operations**

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3. 1	Puget Sound Clean Air Agency Reg. I: 9.20(a)	06/09/88	Must maintain sources approved under Puget Sound Clean Air Agency Regulation I, Article 6 in good working order	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A
EA 3. 2	Puget Sound Clean Air Agency Reg. II: 2.07(b) <i>This requirement shall become effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	12/09/99	Shall not cause or allow the transfer of gasoline from a transport tank into a stationary storage tank unless  1) The tank is CARB Stage 1 certified with submerged fill pipe; and  2) The Stage 1 system is visually inspected after each product delivery	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	Pressure decay CARB test procedure TP-201.3 and back pressure wet CARB test procedure TP-201.4 for Stage 1 certification

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3.3	Puget Sound Clean Air Agency Reg. II: 2.07(b) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	2/10/94	Shall not cause or allow the transfer of gasoline from a transport tank into a stationary storage tank unless  1) The tank is CARB Stage 1 certified with submerged fill pipe;  2) The transport tank is equipped to balance vapors; and  3) All vapor lines are connected between the transport tank and the stationary storage tank, and the Stage 1 vapor recovery system is operating	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	Pressure decay CARB test procedure TP-201.3 and back pressure wet CARB test procedure TP-201.4 for Stage 1 certification
EA 3.4	Puget Sound Clean Air Agency Reg. II: 2.07(a)(2) and (b)(1) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	2/10/94	Tanks over 1000 gallons must be equipped with CARB certified Stage 1 vapor recovery system with submerged fill pipe	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3. 5	Puget Sound Clean Air Agency Reg. II: 2.07(b)(2) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	2/10/94	Transport tank must be equipped to balance vapors for Stage 1 tanks	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A
EA 3. 6	Puget Sound Clean Air Agency Reg. II: 2.07(b)(3) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	2/10/94	Stage 1 system must be operating with the vapor return lines connected between stationary and transport tanks	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A
EA 3. 7	Puget Sound Clean Air Agency Reg. II: 2.08(b) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	6/13/91	Current inspection sticker must be displayed on transport tank vehicle or current leak test certification for transport tank must be on file with King County Solid Waste Division prior to filling storage tank	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3. 8	Puget Sound Clean Air Agency Reg. II: 2.08(d)(1) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	6/13/91	Vapor recovery system operated during transfer so gasoline vapor < LEL	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A
EA 3. 9	Puget Sound Clean Air Agency Reg. II: 2.08(d)(2) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(b) into the SIP</i>	6/13/91	No liquid leaks > 3 drops/minute during transfer and no more than 10 ml of liquid drainage per disconnect	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3. 10	Puget Sound Clean Air Agency Reg II: 2.07(c) <i>This requirement shall become effective upon adoption of the 12/9/99 version of Reg. II: 2.07(c) into the SIP</i>	12/09/99	Shall not allow the transfer of gasoline from any storage tank into any motor vehicle fuel tank (except motorcycles) unless:  1) The dispenser system is CARB Stage 2 certified, 2) Operating instructions for Stage 2 equipment to include warning against topping off, and Dept of Ecology's toll-free telephone number for complaints about the system, are posted, and 3) Stage 2 Vapor Recovery equipment shall be visually inspected for equipment defects once per week. Any defective equipment shall be taken out of service until repaired	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A

Reqmt No.	Federally Enforceable Requirement	Adoption or Effective Date	Requirement Paraphrase (Information Only)	Monitoring, Maintenance & Recordkeeping Method (See Section II)	Emission Standard Period	Emission Standard Reference Test Method
EA 3. 11	Puget Sound Clean Air Agency Reg II: 2.07(e) <i>This requirement shall no longer be effective upon adoption of the 12/9/99 version of Reg. II: 2.07(c) into the SIP</i>	02/10/94	Shall not allow the transfer of gasoline from any storage tank into any motor vehicle fuel tank (except motorcycles) unless:  1) The dispenser system is CARB Stage 2 certified, 2) The vapor return line is connected between the storage tank and the motor vehicle, 3) All bellows-type nozzles are inspected daily. Any defective equipment shall be taken out of service until repaired, and 4) Operating instructions for Stage 2 equipment to include warning against topping off, and Dept of Ecology's toll-free telephone number for complaints about the system, are posted	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A
EA 3. 12	Puget Sound Clean Air Agency – Order of Approval No. 7836 Condition No. 3	10/20/99	Certify CARB compliance to Stage 2 equipment prior to placing in operation	II.A.2(e) Gasoline Station Certification and Monitoring	N/A	N/A

N/A = Not Applicable

The following requirement is **not** federally enforceable. It is enforceable only by the Puget Sound Clean Air Agency and/or the Washington State Department of Ecology.

**Table 8 Emission Activity 3 (EA-3): Gasoline Fueling Operations (Non-federally Enforceable)**

<b>Reqmt No.</b>	<b>State/Puget Sound Clean Air Agency Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 3. 13	RCW 70.94.152(7)	1996	Must maintain and operate equipment requiring an NOC in good working order	II.A Minimum Monitoring and Maintenance Requirements.	N/A	N/A

N/A = Not Applicable

**4. Emission Activity (EA-4): Facility Operations**

This emission activity consists of maintenance activities and equipment used for landfill facilities maintenance. The activities occur site-wide and include maintenance of mobile equipment, landfill gas collection/destruction equipment and tools, leachate management, truck washers and all other plant facilities and utilities.

**Table 9 Emission Activity 4 (EA-4): Facility Operations**

<b>Reqmt No.</b>	<b>Federally Enforceable Requirement</b>	<b>Adoption or Effective Date</b>	<b>Requirement Paraphrase (Information Only)</b>	<b>Monitoring, Maintenance &amp; Recordkeeping Method (See Section II)</b>	<b>Emission Standard Period</b>	<b>Emission Standard Reference Test Method</b>
EA 4. 1	Puget Sound Clean Air Agency – Order of Approval No. 7676 Condition No. 7	9/22/99	To the greatest degree possible, roads shall be paved. Truck wheels shall be washed. Aggressive dust control and road sweeping program will be implemented	II.A.1(b)Complaint Response II.A.1(c) Facility-Wide Inspections  II.B Operation and Maintenance (O&M) Plan Requirements	N/A	N/A

N/A = Not Applicable

There are no specific federally or state only enforceable applicable requirements. However, the requirements in Section I. A. do apply.



## **II. MONITORING, MAINTENANCE AND RECORDKEEPING PROCEDURES**

### ***A. Minimum Monitoring and Maintenance Requirements.***

#### **1. Facility-Wide Monitoring**

##### ***(a) Opacity Monitoring***

King County Solid Waste Division shall conduct monthly inspections of the facility for visible emissions. Inspections are to be performed while the equipment is in operation during daylight hours. If, during the scheduled inspection, or at any other time, visible emissions other than uncombined water are observed, King County Solid Waste Division shall, as soon as possible, but no later than within 24 hours of the initial observation, take corrective action until there are no visible emissions or, alternatively, record the opacity using the reference test method or shut down the unit or activity until it can be repaired.

##### ***(b) Complaint Response***

King County Solid Waste Division shall maintain and follow a complaint response plan, which includes the following:

- 1) Designation of a responsible person to respond to and record complaints regarding odor, fugitive dust or nuisance. [Puget Sound Clean Air Agency - Order of Approval No. 7676 Condition No. 8]
- 2) An informational bulletin that will be mailed out to any person that contacts the landfill, or to other interested persons forwarded from a local governmental agency that has a complaint or questions about the complaint response process. This informational bulletin shall include an explanation of the landfill's odor and nuisance control plans and the name and telephone number of the person responsible for responding to the complaints. [Puget Sound Clean Air Agency Order of Approval No. 7676, Condition No. 8]
- 3) King County Solid Waste Division shall record and investigate complaints regarding odor, fugitive dust, or nuisance as soon as possible, but no later than 12 hours after receipt of the complaint. The investigation will include documentation of wind direction and speed during the time the complaint occurred. King County Solid Waste Division shall use good industrial practices to correct any problems identified by the complaint investigations within 24 hours. [Puget Sound Clean Air Agency Order of Approval No. 7676, Condition No. 8]. King County Solid Waste Division shall record and investigate complaints about any emissions that are, or likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property, emissions from fallout and any track-out onto paved roads open to the public, or complaints regarding other applicable

requirements.

- 4) King County Solid Waste Division shall maintain records on-site of all complaints received regarding odor, fugitive dust or nuisance including the date and time of the complaint, the nature of the complaint, the wind speed and wind direction at the time of the complaint, and the date, time and nature of any corrective action taken. [Puget Sound Clean Air Agency Order of Approval No. 7676, Condition No. 8]
- 5) The complaint response plan shall be maintained on-site and made available to Puget Sound Clean Air Agency personnel upon request. [Puget Sound Clean Air Agency Order of Approval No. 7676, Condition No. 8]

King County Solid Waste Division shall investigate the complaint and determine if there was noncompliance with an applicable requirement of this permit. King County Solid Waste Division shall correct any such compliance problems as soon as possible. King County Solid Waste Division shall shut down the unit or activity if the unit or activity is not returned to a compliant status within 24 hours of identification.

**(c) Facility-Wide Inspections**

King County Solid Waste Division shall conduct a facility-wide inspection at least once per calendar month. These inspections shall include checking for prohibited activities under Section III of the permit and activities that require additional approval under Section IV of the permit. The inspections shall also examine the general state of compliance with the general applicable requirements and the general effectiveness of the Operation & Maintenance (O&M) Plan.

The facility-wide inspections shall include an inspection for odor-bearing contaminants and emissions of any air contaminant in sufficient quantities and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interfere with enjoyment of life and property. King County Solid Waste Division shall also conduct inspections once per calendar month for fugitive dust and track-out while conducting activities, such as construction, that are likely to generate fugitive dust or track-out.

King County Solid Waste Division shall correct any problems with significant emission units or activities identified during the course of these inspections as soon as possible, but not later than within 24 hours. King County Solid Waste Division shall shut down the unit or activity if the problem cannot be corrected within 24 hours of identification.

**(d) Maintenance and Repair of Insignificant Emission Units**

King County Solid Waste Division shall use good industrial practices to maintain insignificant emission units and equipment<sup>1</sup> not listed in this permit. For such equipment, King County Solid

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<sup>1</sup> Puget Sound Clean Air Agency Regulation I, Section 1.07(s) states, "EQUIPMENT means any stationary or portable device or any part thereof that emits or may emit any air

Waste Division shall also promptly repair defective equipment. Good industrial practices may include, but are not limited to, following the manufacturer's operations manual or an equipment operations schedule, minimizing emissions until the repairs can be completed, and taking measures to prevent recurrence of the problem.

## **2. Specific Monitoring**

### **(a) Well Monitoring**

#### **(1) Flow Rate Monitoring**

For the purpose of demonstrating that the gas collection system flow rate is sufficient to determine compliance with 40 CFR 752(b)(2)(ii)(A)(3), King County Solid Waste Division shall measure static gauge pressure in the gas collection header for each individual well every calendar month. If a positive pressure exists, action shall be initiated to correct the exceedance within five calendar days. Exemptions for allowing positive pressure conditions are listed in 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational performance standards. [40 CFR 60.755(a)(3)]

#### **(2) Air Infiltration Monitoring**

- i) For identifying whether excess air infiltration into the landfill is occurring, King County Solid Waste Division shall monitor each well monthly for temperature and either nitrogen or oxygen as provided in 40 CFR 753(c). If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance with five calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedance of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the EPA Administrator for approval. [40 CFR 60.755(a)(5)]
- ii) The nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i). [40 CFR 60.753(c)(1)]
- iii) Unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i), the oxygen shall be determined by an oxygen meter using EPA

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contaminant into the atmosphere.”

Method 3A except that:

- 1) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;
- 2) A data recorder is not required;
- 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span;
- 4) A calibration error check is not required;
- 5) The allowable sample bias, zero drift, and calibration drift are +/- 10%.

[40 CFR 60.753(c)(2)]

- 3) For determining when the collection and control system can be removed as provided in 40 CFR 60.752(b)(2)(v), the equation in 40 CFR 60.754(b) shall be used. The flow rate of landfill gas needed for the equation shall be measured at the common header pipe before the control devices using EPA Method 2E. Other methods of measuring flow rate must be submitted to the Puget Sound Clean Air Agency for prior approval of use. The average NMOC concentration needed for the equation shall be determined by collecting and analyzing landfill gas from the same common header pipe, using EPA Method 25C or EPA Method 18. If EPA Method 25C is used, the resultant NMOC concentration shall be divided by six to convert the concentration of NMOC as carbon to the concentration of NMOC as hexane. If EPA Method 18 will be used, testing of the compounds listed in the most recent Compilation of Air Pollutant Emission Factors (AP-42) shall be conducted. The sample location on the common header pipe shall be before any condensate removal or other gas refining units. [40 CFR 60.754(b)]

**(b) Quarterly Surface Monitoring for Fugitive Landfill Gas**

King County Solid Waste Division shall monitor each quarter for surface emissions of methane according to the following schedule.

First Quarter	December 15 to January 15
Second Quarter	March 15 to April 15
Third Quarter	June 15 to July 15
Fourth Quarter	September 15 to October 15

After final closure, if the landfill has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods, then quarterly monitoring may be replaced by annual monitoring. Any methane reading of 500 ppm or more above background detected during annual monitoring returns the frequency to quarterly monitoring. [40 CFR 60.756(f)]

King County Solid Waste Division shall monitor surface concentrations of methane along the entire perimeter of the gas collection area and along a pattern that traverses the landfill at 30-meter intervals. The background concentration of methane shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.

Surface emission monitoring shall be performed in accordance with Section 4.3.1 of EPA Method 21 except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.

Detectors that may be used include an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the instrument requirements of 40 CFR 60.755(d).

Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance. As long as the following actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d):

- 1) The location of each monitored exceedance shall be marked and the location recorded.
- 2) Cover maintenance or adjustments to the vacuum on the adjacent wells to increase the gas collection near each exceedance shall be made, and the location shall be re-monitored within 10 calendar days of detecting the exceedance.
- 3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in paragraph (6) below shall be taken, and no further monitoring of that location is required until the action in paragraph (6) has been taken.
- 4) Fifteen days after an exceedance of 500 ppm methane over background for which initial corrective actions fail, a report with a plan of action will be made to the Puget Sound Clean Air Agency. [Order of Approval No. 7676. Condition No. 6]
- 5) Any location that initially showed an exceedance, but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified above, shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, then the actions in (iii) above or (6) below shall be taken.
- 6) For any location where monitored methane concentration equals or exceeds 500 ppm above background 3 times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Puget Sound Clean Air

Agency for approval.

[40 CFR 60.755(c)]

**(c) Cover Monitoring**

King County Solid Waste Division shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. [40 CFR 60.756(c)(v)]

**(d) Flare Monitoring**

- 1) Performance testing shall be accomplished in accordance with Section V.N.1 of this permit.
- 2) After initial performance testing, continued compliance at enclosed combustion Flares 1, 2, 3 and 4 shall be monitored by performing these tests annually.
- 3) The required 98% weight percent reduction efficiency of NMOC, or the volume of NMOCs remaining in parts per million after control, shall be established by an initial performance test. This test is to be completed no later than 180 days after the initial startup of each new flare, using the equation in 40 CFR 60.754(d) and using EPA Method 25C or Method 18. If Method 25C is used, the resultant NMOC concentration shall be divided by six to convert the concentration of NMOC as carbon to the concentration of NMOC as hexane. If EPA Method 18 will be used, testing for the compounds listed in the most recent Compilation of Air Pollutant Emission Factors (AP-42) shall be conducted. King County Solid Waste Division shall submit the EPA method to be used for testing to the Puget Sound Clean Air Agency in a source test plan for approval as per Section V.N.1 of this document. [40 CFR 60.752(b)(2)(iii)(B)] and [40 CFR 60.754(d)]
- 4) For required source tests on enclosed combustion Flares 1, 2, 3 and 4, EPA Methods 1 and 2 (inlet and outlet) shall be used for measuring gas velocity. [Puget Sound Clean Air Agency Order of Approval No. 6002, Condition No. 7; and Order of Approval No. 7076, Condition No. 7]
- 5) In addition to the source test methods required by 40 CFR 60.752, King County Solid Waste Division shall source test enclosed combustion Flares 3, 4, and 5 using fixed gas analysis with GC-TCD (inlet), EPA Methods 4 and TO-14 (inlet and outlet), and EPA Methods 3A, 6C, 7E, and 26A (outlet). [Puget Sound Clean Air Agency Order of Approval No. 6002, Condition No. 7; Order of Approval No. 7076, Condition No. 7; and Order of Approval No. 8062, Condition No. 7]
- 6) For the South Solid Waste Area Passive Gas Flare, King County Solid Waste Division shall test the automatic shutoff valve quarterly. The results shall be recorded and kept onsite for Puget Sound Clean Air Agency review. [Puget Sound Clean Air Agency Order of Approval No. 7096, Condition No. 3]
- 7) King County Solid Waste Division shall measure and record the gas velocity for each inlet

gas manifold stream daily (weekly for the portable trailer mounted flare of Order of Approval No. 7836), and then calculate and record gas volumetric flow rates. [Puget Sound Clean Air Agency Order of Approval No. 6002, Condition No. 4; Order of Approval No. 6454, Condition No. 4; Order of Approval No. 7076, Condition No. 4; Order of Approval No. 7836, Condition No. 3; and Order of Approval No. 8062, Condition No. 4]

- 8) King County Solid Waste Division shall calibrate, maintain, and operate according to the manufacturer's specifications, the following flare monitoring equipment:
  - i) A temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius (0.9 degrees F), whichever is greater. [40 CFR 60.756(b)(1), Puget Sound Clean Air Agency Order of Approval No. 6002, Condition No. 4; Order of Approval No. 7076, Condition No. 4; and Order of Approval No. 8062, Condition No. 4]
  - ii) A device that records flow to or bypass of the flare every 15 minutes, unless the bypass valve is secured in the closed position with a car-seal or a lock and key. If securing devices on the bypass valves are used, they shall be checked visually on a monthly basis. [40 CFR 60.756(b)(2)]

**(e) Gasoline Station Certification and Monitoring**

- 1) Prior to placing the gasoline station into operation, the King County Solid Waste Division shall certify that the Stage 1 and Stage 2 vapor balance system is compliant with the CARB approval orders including a pressure decay (CARB test procedure TP-201.3 adopted April 12, 1996) and back pressure (wet CARB test procedure TP-201.4, adopted April 12, 1996) tests and 10 gallon-per-minute limitation compliance verification procedure. The results of the equipment installation certification test shall be submitted to the Puget Sound Clean Air Agency within 30 days of equipment startup. [Puget Sound Clean Air Agency Order of Approval No. 7942, Condition No. 3]
- 2) King County Solid Waste Division shall visually inspect the Stage 1 system after each product delivery. Any equipment found to be defective (e.g., loose caps or adapters, stuck poppet valves, damaged gaskets) shall be repaired or replaced as soon as possible, but no later than seven days after the inspection. [Puget Sound Clean Air Agency Regulation II, Section 2.07(b)(2)]
- 3) Stage 2 vapor recovery compliance certification testing shall occur at frequencies specified in CARB executive orders. Notification to the Puget Sound Clean Air Agency shall be submitted at least five days in advance of the test. Results shall be kept for two years on site. If, as a result of compliance testing, repairs to still operating Stage 2 vapor recovery systems are required, they must take place within 30 days of compliance certification testing, unless the Control Officer grants an extension. [Puget Sound Clean Air Agency Regulation II,

Section 2.07(c)(4) & (d)]

**B. Operation and Maintenance (O&M) Plan Requirements**

King County Solid Waste Division's O&M Plan shall include procedures specifying how King County Solid Waste Division will assure continuous compliance with Puget Sound Clean Air Agency Regulations I, II and III, and how King County Solid Waste Division will carry out the Minimum Monitoring and Maintenance provisions specified in Section II.A of this permit. For insignificant emission units, refer to the requirements stated in Section II.A.1(d), "Maintenance and Repair of Insignificant Emission Units" of this permit. The plan shall reflect good industrial practice. In most instances, following the manufacturer's operations manual or equipment operational schedule, minimizing emissions until the repairs can be completed and taking measures to prevent recurrence of the problem may be considered good industrial practice. Determination of whether good industrial practice is being used will be based on available information such as, but not limited to, monitoring results, opacity observations, review of operations and maintenance procedures, and inspections of the emission unit or equipment. King County Solid Waste Division shall determine and set in the King County Solid Waste Division's O&M plan the frequency that will be used for continued source testing of the enclosed flares after initial source testing is completed. This monitoring of the enclosed flares will then be used to check the continued operating efficiency of the enclosed flares, and the emission factors to be used for the next annual report submitted to the Puget Sound Clean Air Agency. King County Solid Waste Division shall use the results of the inspections required by this permit in its annual review of the O&M Plan. The specific provisions of the O&M Plan, other than those required by Condition Section II.A, shall not be deemed part of this permit.

**C. Notification and Recordkeeping**

**(a) New Source Performance Standards 40 CFR 60 Subpart A**

King County Solid Waste Division shall furnish the EPA Administrator written notification of activities listed in 40 CFR 60.7(a) and (b). The King County Solid Waste Division shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the affected source; any malfunction in the operation of the affected source; any malfunction of the air pollution equipment; or any periods during which a monitoring device is inoperative. Each summary report form shall contain this information and be in the format described in 40 CFR 60.7(d). For purposes of this requirement, the EPA Administrator shall be:



Puget Sound Clean Air Agency  
Attn.: Operating Permit Certification  
110 Union Street, Suite 500  
Seattle, Washington 98101-2038

EPA Region 10, Mail Stop OAQ-107  
Attn.: Air Operating Permits  
1200 Sixth Avenue  
Seattle, Washington 98101

[40 CFR 60.7]

***(b) New Source Performance Standards 40 CFR 60 Subpart WWW***

1) Annual Report - King County Solid Waste Division shall submit an annual report, with the compliance certification as required by Section V.N, to both EPA Region 10 and to the Puget Sound Clean Air Agency. It will contain the following:

- i) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c) and (d);
- ii) Description and duration of all periods when the gas stream is diverted from any control devices (enclosed combustion flares) through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756;
- iii) Description and duration of all periods when the control devices (enclosed combustion flares) were not operating for a period exceeding one hour and length of time the control device was not operating;
- iv) All periods when the collection system was not operating in excess of 5 days;
- v) The location of each exceedance of the 500 parts-per-million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month;
- vi) The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), and (c)(4) of 40 CFR 60.755; and

[40 CFR 60.757(f)]

- vii) Instances of fire or increased well temperatures shall be recorded when positive pressure is used in efforts to avoid a fire. These records shall be submitted, as provided in 40CFR 60.757(f)(1), with the annual reports. [40CFR60.753(b)(1)]

2) King County Solid Waste Division shall keep for at least five years up-to-date, readily accessible, on-site records of the design capacity report which triggered 40 CFR 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within four hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.758(a)]

- 3) King County Solid Waste Division shall keep up-to-date, readily accessible records for the life of the flares, of the data listed below that was measured during each flare's initial performance test. Any records of subsequent testing or monitoring shall be kept for a minimum of five years. Records of the vendor specifications of the flares shall be maintained until equipment removal:
- i) Where King County Solid Waste Division seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(ii):
    - The maximum expected gas generation flow rate as calculated in 40 CFR 752(a)(1); and
    - The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR 60.752(a)(1).
  - ii) Where King County Solid Waste Division seeks to demonstrate compliance with 40 CFR 60.752(b)(2)(iii) through the use of an enclosed combustion flare:
    - The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; and
    - The percent reduction of NMOC determined as specified in 40 CFR 60.752(b)(2)(iii)(B) achieved by each enclosed combustion flare.

[40 CFR 60.758(b)(1 & 2)]

- 4) King County Solid Waste Division shall keep up-to-date, readily accessible records for the life of the collection system, of the plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.
- i) Installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b); and
  - ii) Nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from gas collection as provided in 40 60.759(a)(3)(i) as well as any non-productive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii).

[40 CFR 60.758(d)]

- 5) King County Solid Waste Division shall keep up-to-date, readily accessible continuous records for five years of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are

exceeded:

- i) The following constitutes an exceedance that shall be recorded and reported under 40 CFR 60.757(f): All 3-hour periods of operation during which the average combustion temperature was more than 28 degrees C (82 degrees F) below the average combustion temperature measured during the most recent performance test at which compliance with 40 CFR 752(b)(2)(iii) was determined. [40 CFR 60.758(c)(1)]
- ii) Records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass line, specified under 40 CFR 60.756. [40 CFR 60.758(c)(2)]
- iii) Records of all collection and control system exceedances of the operational standards in 40 CFR 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]

[40 CFR 60.758(c)]

6) Closure of the landfill:

- i) King County Solid Waste Division shall submit notification in the form of a closure report to the Puget Sound Clean Air Agency and EPA within 30 days of waste acceptance cessation. Either agency may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. Once this report has been submitted to these agencies, no additional wastes may be placed into the landfill without filing a notification of modification as describe under 40 CFR 60.7(a)(4).
- ii) King County Solid Waste Division shall notify Puget Sound Clean Air Agency and EPA 30 days prior to removal or permanent shutdown of the flares by submission of an equipment removal report. This report shall contain all of the items in 40 CFR 60 757(e).

[40 CFR 60.757(d & e)]

**(c) Asbestos Acceptance and Burial under 40 CFR 61 Subpart M**

- 1) Maintain waste shipment records for all shipments of asbestos accepted for burial at the landfill for two years:
  - i) The name address and telephone number of the waste generator;
  - ii) The name, address, and telephone number of the transporter(s);

- iii) The quantity of the asbestos-containing waste material in cubic meters (cubic yards);
  - iv) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the Puget Sound Clean Air Agency the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report. For waste generated outside Puget Sound Clean Air Agency's jurisdiction, send copies of these documents to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the generator of the waste; and
  - v) The date of receipt.
- 2) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
  - 3) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report it in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator, (identified in the waste shipment record). Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
  - 4) Retain a copy of all records and reports for at least two years.

[40 CFR 61.154 (e)]

- 5) Maintain waste burial records until landfill closure, when 40 CFR 61.151 (Standard for inactive waste disposal sites) becomes applicable. Record location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area. Furnish these records upon request, and make them available during normal business hours for inspection by the Puget Sound Clean Air Agency. Submit to the Puget Sound Clean Air Agency, upon closure of the facility, a copy of the records of asbestos waste disposal locations and quantities. [40 CFR 61.154 (f) through (i)]
- 6) Notify Puget Sound Clean Air Agency Operating Permit Certification 45 days prior to disturbing any asbestos-containing waste material deposited at the site. If the excavation will begin on a date other than the one contained in the original notice, then the new start date must be provided to the Puget Sound Clean Air Agency at least 10 working days before excavation begins, and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

- i) Scheduled starting and completion dates;
- ii) Reason for disturbing the waste;
- iii) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Puget Sound Clean Air Agency may require changes in the emission control procedures to be used; and
- iv) Location of any temporary storage site and the final disposal site.

[40 CFR 61.154 (j)]

### **III. PROHIBITED ACTIVITIES**

King County Solid Waste Division is prohibited from conducting, causing, or allowing the following activities:

#### ***A. Adjustment for Atmospheric Conditions.***

Varying the rate of emissions of a pollutant according to atmospheric conditions or ambient concentrations of that pollutant is prohibited, except as directed according to air pollution episode regulations. [WAC 173-400-205, 8/20/93]

#### ***B. Open Burning.***

King County Solid Waste Division shall not conduct open burning during any stage of an air pollution episode or period of impaired air quality and shall not conduct any open burning other than the following types:

1. Fires consisting solely of charcoal, propane, natural gas, or wood used solely for the preparation of food, and
2. Fires for instruction in the methods of fighting fires, provided that the person conducting the training fire complies with Puget Sound Clean Air Agency Regulation I, Section 8.07.

[Puget Sound Clean Air Agency Regulation I, Sections 8.02(a) and 8.06, 10/8/98] [WAC 173-425-020(1), 1/1/93; WAC 173-425-050(1), 1/1/93; RCW 70.94.743, 1998 c68 p1 and RCW 70.94.775(2), 1995 c 362p2 State/Puget Sound Clean Air Agency only]

#### ***C. Refuse Burning.***

King County Solid Waste Division shall not cause or allow the burning of combustible refuse except in a multiple chamber incinerator provided with control equipment. King County Solid Waste Division shall not operate refuse-burning equipment any time other than daylight hours. [Puget Sound Clean Air Agency Regulation I, Section 9.05, 12/9/93]

#### ***D. Concealment.***

King County Solid Waste Division shall not cause or allow the installation or use of any device or use of any means which, without resulting in a reduction in the total amount of air contaminant emitted, conceals an emission of an air contaminant that would otherwise violate Puget Sound Clean Air Agency Regulation I, Article 9 or Chapter 173-400 WAC. [Puget Sound Clean Air Agency Regulation I, Section 9.13(a), 6/9/88; WAC 173-400-040(7), 8/20/93; and 40 CFR 60.12]

***E. Masking.***

King County Solid Waste Division shall not cause or allow the installation or use of any device or use of any means designed to mask the emission of an air contaminant that causes detriment to health, safety or welfare of any person or conceals or masks an emission of an air contaminant that would otherwise violate Regulation I, Article 9 or Chapter 173-400 WAC. [Puget Sound Clean Air Agency Regulation I, Section 9.13(b), 6/9/88; and WAC 173-400-040(7), 8/20/93]

***F. Ambient Standards.***

King County Solid Waste Division shall not cause or allow the emission of air contaminants in sufficient quantity as to exceed any ambient air quality standard in Puget Sound Clean Air Agency Regulation I Section 11.01. [Puget Sound Clean Air Agency Regulation I, Section 11.01(b), 4/14/94]

#### **IV. ACTIVITIES REQUIRING ADDITIONAL APPROVAL**

King County Solid Waste Division shall file notification and obtain the necessary approval from the Puget Sound Clean Air Agency before conducting any of the following:

##### **A. New Source Review.**

King County Solid Waste Division shall not construct, install, establish, or modify an air contaminant source, except those sources that are excluded by Puget Sound Clean Air Agency Regulation I, Section 6.03(b), unless a “Notice of Construction and Application for Approval” has been filed with and approved by the Puget Sound Clean Air Agency. [Puget Sound Clean Air Agency Regulation I, Section 6.03, 7/8/99; 40 CFR 60.7(a), 40 CFR 60.14, 40 CFR 60.15, 40 CFR 61.07] [WAC 173-460-040, 1/14/94; RCW 70.94.152, 1996 c 67p1, 1996 c 29p1 State/Puget Sound Clean Air Agency only]

(a) When calculating emissions for PSD purposes, King County Solid Waste Division shall estimate the NMOC emission rate for comparison to the PSD major source and significance levels using AP-42 or other approved measurement procedures. [40 CFR 60 754(c)]

(b) For calculating the maximum expected gas generation in any new additions to the landfill, the equations in 40 CFR 60.755(a) shall be used. For the existing collection system, actual flow may be used to project the maximum expected gas generation flow for the total landfill with any new additions. This maximum expected gas generation flow shall be used to design the collection system required in 40 CFR 60.752(b)(2)(ii)(A)(1&2). [40 CFR 60.755(a)(1&2)]

##### **B. Replacement or Substantial Alteration of Emission Control Technology.**

King County Solid Waste Division shall file a Notice of Construction and Application for Approval according to WAC 173-400-114 with the Puget Sound Clean Air Agency before replacing or substantially altering any emission control technology installed at the facility. This would include capping or removing the landfill gas control systems on sections of the landfill meeting the conditions in 40 CFR 60.752(b)(2)(v). [Puget Sound Clean Air Agency Regulation I, Section 6.03, 7/8/99] [WAC 173-400-114, RCW 70.94.153, 1991 c 199p303 State/Puget Sound Clean Air Agency only]

##### **C. Asbestos.**

(a) King County Solid Waste Division shall comply with 40 CFR 61.145 and 61.150 when conducting renovation or demolition activities at the facility. [40 CFR 61.145 and 61.150]

(b) King County Solid Waste Division shall comply with Puget Sound Clean Air Agency Regulation III, Article 4 when conducting any asbestos project, renovation or demolition activities at the facility. [Puget Sound Clean Air Agency Regulation III, Article 4, 2/12/98]



**D. Spray Coating.**

King County Solid Waste Division shall comply with Puget Sound Clean Air Agency Regulation I, Section 9.16 as follows:

(a) **Applicability.** This section applies to spray-coating operations at facilities subject to Article 5 (Registration), Article 6 (New Source Review), or Article 7 (Operating Permits) of this regulation, where a coating that protects or beautifies a surface is applied with spray-coating equipment.

(b) **Exemptions.** The following activities are exempt from the provisions of Sections 9.16(c) and (d) of this regulation. Persons claiming any of the following spray-coating exemptions shall have the burden of demonstrating compliance with the claimed exemption.

- 1) Application of architectural or maintenance coatings to stationary structures (e.g., bridges, water towers, buildings, stationary machinery, or similar structures);
- 2) Aerospace coating operations subject to 40 CFR Part 63, Subpart GG. This includes all activities and materials listed in 40 CFR 63.741(f);
- 3) Use of high-volume, low-pressure (HVLP) spray guns when:
  - (A) spray-coating operations do not involve motor vehicles or motor vehicle components;
  - (B) the gun cup capacity is 8 fluid ounces or less;
  - (C) the spray gun is used to spray-coat less than 9 square feet per day per facility;
  - (D) coatings are purchased in containers of 1 quart or less; and
  - (E) spray-coating is allowed by fire department, fire marshal, or other government agency requirements.
- 4) Use of air-brush spray equipment with 0.5 to 2.0 CFM airflow and a maximum cup capacity of 2 fluid ounces;
- 5) Use of hand-held aerosol spray cans with a capacity of 1 quart or less; or
- 6) Indoor application of automotive undercoating materials using organic solvents having a flash point in excess of 100°F.

(c) **General Requirements for Indoor Spray-Coating Operations.** It shall be unlawful for any person subject to the provisions of this section to cause or allow spray-coating inside a structure, or spray-coating of any motor vehicles or motor vehicle components, unless the spray-coating is conducted inside an enclosed spray area. The enclosed spray area shall employ either properly seated paint arresters, or water-wash curtains with a continuous water curtain to control the overspray. All emissions from the spray-coating operation shall be vented to the atmosphere through an unobstructed vertical exhaust vent.

(d) General Requirements for Outdoor Spray-Coating Operations. After January 1, 2000, it shall be unlawful for any person subject to the provisions of this section to cause or allow spray-coating outside an enclosed structure unless such spray-coating operations are approved in a notice of construction permit issued in accordance with Article 6 of this regulation. The following minimum requirements for outdoor spray-coating operations will be included in all such notice of construction permits:

- 1) Reasonable methods to confine overspray to the property where the spray-coating is being conducted shall be used (e.g., tarps, shrink wrap, mobile enclosure, or similar methods for control of overspray); and
- 2) High-transfer efficiency spray equipment that minimizes overspray shall be used (e.g., HVLP, low-volume, low-pressure (LVLP), electrostatic, or air-assisted airless). Airless spray equipment may be used where low viscosity and high solid coatings preclude the use of higher-transfer efficiency spray equipment.

[Puget Sound Clean Air Agency Regulation I, Section 9.16, 6/13/91]

[Puget Sound Clean Air Agency Regulation I, Section 9.16, 7/8/99] *State/Puget Sound Clean Air Agency only*

## **V. STANDARD TERMS AND CONDITIONS**

### ***A. Duty to comply***

King County Solid Waste Division shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 70.94 RCW and, for federally enforceable provisions, a violation of the Federal Clean Air Act (FCAA). Such violations are grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [Puget Sound Clean Air Agency Regulation I, Section 7.05, 10/28/93, WAC 173-401-620(2)(a), 11/4/93]

### ***B. Permit actions***

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by King County Solid Waste Division for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [WAC 173-401-620(2)(c), 11/4/93]

### ***C. Property rights***

This permit does not convey any property rights of any sort, or any exclusive privilege. [WAC 173-401-620(2)(d), 11/4/93]

### ***D. Duty to provide information***

King County Solid Waste Division shall furnish to the Puget Sound Clean Air Agency, within a reasonable time, any information that the Puget Sound Clean Air Agency may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, King County Solid Waste Division shall also furnish to the Puget Sound Clean Air Agency copies of records required to be kept by the permit or, for information claimed to be confidential, King County Solid Waste Division may furnish such records directly to EPA Region 10 along with a claim of confidentiality. The Puget Sound Clean Air Agency shall maintain the confidentiality of such information in accordance with RCW 70.94.205. [WAC 173-401-620(2)(e), 11/4/93]

### ***E. Permit fees***

King County Solid Waste Division shall pay fees as a condition of this permit in accordance with the Puget Sound Clean Air Agency Regulation I, Article 7. Failure to pay fees in a timely fashion shall subject King County Solid Waste Division to civil and criminal penalties as prescribed in Chapter 70.94 RCW. [WAC 173-401-620(2)(f), 11/4/93]

***F. Emissions trading***

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit. [WAC 173-401-620(2)(g), 11/4/93]

***G. Severability***

If any provision of this permit is held to be invalid, all unaffected provisions of the permit shall remain in effect and be enforceable. [WAC 173-401-620(2)(h), 11/4/93]

***H. Permit appeals***

This permit or any condition in it may be appealed only by filing an appeal with the Pollution Control Hearings Board and serving it on the Puget Sound Clean Air Agency within thirty days of receipt, pursuant to RCW 43.21B.310 and WAC 173-401-735. The provision for appeal in this section is separate from and additional to any federal rights to petition and review found under §505(b) of the FCAA. [WAC 173-401-620(2)(i) and WAC 173-401-735, 11/4/93]

***I. Permit continuation***

This permit and all terms and conditions contained therein, including any permit shield provided under WAC 173-401-640, shall not expire until the renewal permit has been issued or denied if a timely and complete application has been submitted. An application shield granted under WAC 173-401-705(2) shall remain in effect until the renewal permit has been issued or denied if a timely and complete permit application has been submitted. [WAC 173-401-620(2)(j), 11/4/93]

***J. Federal enforceability***

All terms and conditions of this permit are enforceable by the EPA administrator and by citizens under the FCAA, except for those terms and conditions designated in the permit as not federally enforceable. [WAC 173-401-625, 11/4/93]

***K. Inspection and entry***

Upon presentation of credentials and other documents as may be required by law, King County Solid Waste Division shall allow the Puget Sound Clean Air Agency or an authorized representative to:

- 1) Enter King County Solid Waste Division's premises or where records must be kept under the conditions of this permit;
- 2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

- 3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit; and
- 4) As authorized by WAC 173-400-105 and the FCAA, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [WAC 173-401-630(2), 11/4/93] [RCW 70.94.200 State/Puget Sound Clean Air Agency only]

#### **L. Compliance requirements**

King County Solid Waste Division shall continue to comply with all applicable requirements with which the source is currently in compliance. King County Solid Waste Division shall meet on a timely basis any applicable requirements that become effective during the permit term. [WAC 173-401-630(3), WAC 173-401-510(2)(h)(iii), 11/4/93]

#### **M. Compliance certifications**

King County Solid Waste Division shall submit a certification of compliance with permit terms and conditions once per year. The first such certification shall cover a one-year period commencing upon the date of issuance of this permit. Each certification shall include:

- 1) The identification of each term or condition of the permit that is the basis of the certification;
- 2) The compliance status;
- 3) Whether compliance was continuous or intermittent; and
- 4) The method(s) used for determining the compliance status of the source, currently and over the reporting period. These methods must be consistent with the permit Monitoring, Maintenance and Recordkeeping Methods.

All compliance certifications shall be submitted to EPA Region 10 and to the Puget Sound Clean Air Agency, at the following addresses, within 30 days after the close of the period covered by the certification:

Puget Sound Clean Air Agency  
Attn.: Operating Permit Certification  
110 Union Street, Suite 500  
Seattle, Washington 98101-2038

EPA Region 10, Mail Stop OAQ-107  
Attn.: Air Operating Permits  
1200 Sixth Avenue  
Seattle, Washington 98101

[WAC 173-401-630(5), 11/4/93]

## **N. Compliance determination**

### **1. Emission Testing**

- a) For the purpose of determining compliance with an emission standard, the Puget Sound Clean Air Agency or Ecology may conduct testing of an emission unit or require King County Solid Waste Division to have it tested. In the event, the Puget Sound Clean Air Agency or Ecology conducts the test, King County Solid Waste Division shall be given an opportunity to observe the sampling and to obtain a sample at the same time. [Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94; WAC 173-400-105(4), 8/20/93, 10/23/98 State/Puget Sound Clean Air Agency only]
- b) Testing of sources for compliance with emissions standards shall be performed in accordance with the Reference Test Methods identified in Section I of this permit, except where this permit indicates that a specific Reference Test Method is not needed or appropriate. [Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94]
- c) King County Solid Waste Division shall notify the Puget Sound Clean Air Agency in writing at least 2 weeks (14 days) prior to any compliance test and provide the Puget Sound Clean Air Agency an opportunity to review the test plan and to observe the test. [Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94 and 40 CFR 60.8]
- d) Unless otherwise specified, each test for pollutants other than opacity shall consist of three separate runs and compliance shall be determined from the arithmetic average of the three runs. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of circumstances beyond the operator's control, compliance may, upon Puget Sound Clean Air Agency approval, be determined from the arithmetic average of the two other runs. [Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94]
- e) King County Solid Waste Division, if required by the Puget Sound Clean Air Agency to perform a compliance test, shall submit a report to the Puget Sound Clean Air Agency no later than 60 days after the test. The report shall include:
  - (1) A description of the source and the sampling location;
  - (2) The time and date of the test;
  - (3) A summary of results, reported in units and for averaging periods consistent with the applicable emission standard;
  - (4) A description of the test methods and quality assurance procedures employed;
  - (5) The amount of fuel burned or raw material processed by the source during the test;
  - (6) The operating parameters of the source and control equipment during the test;

- (7) Field data and example calculations; and
- (8) A statement signed by the senior management official of the testing firm certifying the validity of the source test report.

[WAC 173-400-105(4), 10/14/96 State/Puget Sound Clean Air Agency only; Puget Sound Clean Air Agency Regulation I, Section 3.05(b), 2/10/94; and Puget Sound Clean Air Agency Regulation I, Section 3.07, 2/9/95]

## **2. Credible Evidence**

- a) General - For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of this permit, nothing shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [40 CFR 51.212, 40 CFR 52.12, 40 CFR 52.33, 40 CFR 60.11, and 40 CFR 61.12]
- b) Enclosed Flare Operation and Maintenance - At all times, including periods of startup, shutdown, and malfunction, King County Solid Waste Division shall, to the extent practicable, maintain and operate the landfill gas and treatment system in a manner consistent with good air pollution control practice for minimizing emissions as outlined in the facility Operation and Maintenance Plan. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Puget Sound Clean Air Agency which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## **O. Recordkeeping**

King County Solid Waste Division shall maintain the following:

- 1) Records of required monitoring information that include the following if applicable:
  - i) The date, place as defined in the permit, and time of sampling or measurements;
  - ii) The date(s) analyses were performed;
  - iii) The company or entity that performed the analyses;
  - iv) The analytical techniques or methods used;
  - v) The results of such analyses; and
  - vi) The operating conditions existing at the time of sampling or measurement.

- 2) Records describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes. [WAC 173-401-615(2), 11/4/93]
- 3) Records of all monitoring data and support information required by this permit shall be retained by King County Solid Waste Division for a period of five years from the date of the monitoring, sample, measurement, record or application. Support information includes equipment operating parameters specified to be monitored in 40 CFR 60.756, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded, and copies of all reports required by the permit. [WAC 173-401-615(2), 11/4/93] [40 CFR 60.758(c)]
- 4) King County Solid Waste Division shall document all inspections, tests and other actions required by the O&M Plan and Section II.A of this permit, including who conducted the inspection, tests or other actions; and the date and the results of the inspection, tests or other actions including corrective actions. All such records shall be signed and dated. King County Solid Waste Division shall maintain records of all inspections, tests, and other actions required by the O&M Plan on site and available for the Puget Sound Clean Air Agency review. [Puget Sound Clean Air Agency Regulation I, Section 7.09(b), 9/10/98]
- 5) Records for all complaints received concerning odor, fugitive emissions or nuisance relating to Section II of this permit must also contain the following information:
  - i) The date and time of the complaint,
  - ii) The name of the person complaining, if known,
  - iii) The nature of the complaint, and
  - iv) The date, time and nature of any corrective action taken.[WAC 173-401-615(2)(b), 11/4/93]
- 6) Except where an applicable requirement contains more stringent provisions, King County Solid Waste Division shall recover valid monitoring and recordkeeping data for at least 90 percent of all periods over which data are averaged or, if no averaging is used, collected, during each month in which this permit requires monitoring of a process or parameter. Except where an applicable requirement contains more stringent provisions, King County Solid Waste Division is not required to monitor during any period that the monitored process does not operate, nor during periods of monitoring system breakdown, malfunction, repairs, calibration checks and acts of God deemed by the Control Officer to be unavoidable. In determining whether a monitoring failure was unavoidable, the Control Officer shall consider the following:



- a) Whether the event was caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- b) Whether the event was of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- c) Whether King County Solid Waste Division took immediate and appropriate corrective action in a manner consistent with good air pollution control practice.

The monitoring reports required by Section V.P shall include an explanation for any instance in which King County Solid Waste Division failed to meet the data recovery requirements of this condition for any monitored process or parameter. The explanation shall include the reason that the data was not collected and any actions that King County Solid Waste Division will take to insure collection of such data in the future. [WAC 173-401-615(1)(b), 11/4/93]

### ***P. Reporting***

- 1) Any monitoring reports required by this permit to be submitted to the Puget Sound Clean Air Agency shall be submitted at least once every six months, or more frequently where required by an applicable requirement. The first required monitoring report shall be submitted six months after the date of issuance of this permit. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with WAC 173-401-520. Where an applicable requirement requires reporting more frequently than once every six months, the responsible official's certification needs only to be submitted once every six months, covering all required reporting since the date of the last certification, provided that the certification specifically identifies all documents subject to the certification. [WAC 173-401-615(3)(a), 11/4/93]
- 2) King County Solid Waste Division shall report in writing to Puget Sound Clean Air Agency Operating Permit Certification all instances of deviations from the permit requirements, including those attributable to upset conditions as defined in this permit, the probable cause of the deviations, and any corrective actions or preventive measures taken. King County Solid Waste Division shall maintain a contemporaneous record of all deviations. King County Solid Waste Division shall report any deviations to the Puget Sound Clean Air Agency that represent a potential threat to human health or safety by FAX (206-343-7522) as soon as possible but no later than 12 hours after such a deviation is discovered. King County Solid Waste Division shall report other deviations in writing to Puget Sound Clean Air Agency Operating Permit Certification no later than 30 days after the end of the month during which the deviation is discovered. [WAC 173-401-615(3)(b), 11/4/93]
- 3) Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [WAC 173-401-520, 11/4/93]

**Q. Emission reporting**

King County Solid Waste Division shall report annually to the Puget Sound Clean Air Agency for those air contaminants during the previous calendar year that equal or exceed the following (tons per year):

Carbon monoxide (CO) emissions	25
Facility combined total of all toxic air contaminants (TAC) emissions	6
Any single toxic air contaminant (TAC) emissions	2
Nitrogen oxide (NO <sub>x</sub> ) emissions	25
Particulate matter (PM <sub>10</sub> ) emissions	25
Particulate matter (PM <sub>2.5</sub> ) emissions	25
Sulfur oxide (SO <sub>x</sub> ) emissions	25
Volatile organic compounds (VOC) emissions	25

Annual emissions rates shall be reported to the nearest whole ton per year for only those contaminants that equal or exceed the thresholds above. King County Solid Waste Division shall submit to the Puget Sound Clean Air Agency any additional information required by WAC 173-400-105(1) or Puget Sound Clean Air Agency Regulation III, Section 1.11. [Puget Sound Clean Air Agency Regulation I, Section 7.09(a), 9/10/98]

**R. Emergencies**

An emergency, as defined in WAC 173-401-645(1), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the conditions of WAC 173-401-645(3) are met.

The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- 1) An emergency occurred and that King County Solid Waste Division can identify the cause(s) of the emergency;
- 2) King County Solid Waste Division was at the time being properly operated;
- 3) During the period of the emergency, King County Solid Waste Division took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and

- 4) King County Solid Waste Division submitted notice of the emergency to the Puget Sound Clean Air Agency within two (2) working days of the time when the emissions limitations were exceeded due to the emergency or shorter periods of time specified in an applicable requirement. This notice fulfills the requirement of WAC 173-401-615(3)(b) unless the excess emissions represent a potential threat to human health or safety. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, King County Solid Waste Division has the burden of proof to establish the occurrence of an emergency. This provision is in addition to any emergency or upset provision contained in any applicable requirement. [WAC 173-401-645, 11/4/93]

### ***S. Unavoidable excess emissions***

Excess emissions due to startup or shutdown conditions, scheduled maintenance or upsets that are determined to be unavoidable under the procedures and criteria in WAC 173-400-107 shall be excused and not subject to penalty. For any excess emission that King County Solid Waste Division wants the Puget Sound Clean Air Agency to consider unavoidable and excusable under WAC 173-400-107, King County Solid Waste Division shall report as required by Section V.P.2) of this permit the following:

- 1) Why the event was not caused by poor or inadequate design, operation, maintenance, or any other reasonably preventable condition;
- 2) Why the event was not of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- 3) How King County Solid Waste Division took immediate and appropriate corrective action in a manner consistent with good air pollution control practice for minimizing emissions during the event, taking into account the total emissions impact of the corrective action, including slowing or shutting down the emission unit as necessary to minimize emissions, when the operator knew or should have known that an emission standard or permit condition was being exceeded.

[WAC 173-400-107(2); 9/20/93]

### ***T. Need to halt or reduce activity not a defense***

It shall not be a defense for King County Solid Waste Division in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [WAC 173-401-620(2)(b), 11/4/93]

***U. Stratospheric ozone and climate protection***

- 1) King County Solid Waste Division shall comply with the following standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
  - i) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  - ii) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  - iii) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- 2) King County Solid Waste Division may switch from any ozone-depleting substance to any alternative approved pursuant to the Significant New Alternatives Program (SNAP), 40 CFR Part 82, Subpart G, without a permit revision but shall not switch to a substitute listed as unacceptable pursuant to such program. [40 CFR 82.174]
- 3) Any certified technician employed by King County Solid Waste Division shall keep a copy of their certification at their place of employment. [40 CFR §82.166(1)]
- 4) King County Solid Waste Division shall not willfully release any regulated refrigerant and shall use refrigerant extraction equipment to recover regulated refrigerant when servicing, repairing or disposing of commercial air conditioning, heating, or refrigeration systems. [RCW 70.94.970(2) and (4), 11/12/97 State/Puget Sound Clean Air Agency only]

***V. RACT satisfied***

Emission standards and other requirements contained in rules or regulatory orders in effect at the time of this permit issuance shall be considered RACT for the purposes of issuing this permit. [WAC 173-401-605(3), 11/4/93; RCW 70.94.031 State/Puget Sound Clean Air Agency only]

***W. Risk management programs***

In accordance with 40 CFR part 68, if King County Solid Waste Division has or receives more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, King County Solid Waste Division shall comply with the requirements of the Chemical Accident Prevention Provisions of 40 CFR part 68 no later than the following dates:

- 1) Three years after the date on which a regulated substance is first listed under 40 CFR 68.130; or

- 2) The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10]

### ***X. Definitions***

Unless otherwise defined in this permit, the terms used in this permit shall have the same meaning ascribed to them in the referenced regulation. [WAC 173-401-200, 11/4/93]

### ***Y. Duty to supplement or correct application***

Upon becoming aware that it has failed to submit any relevant facts in a permit application or that it has submitted incorrect information in a permit application, King County Solid Waste Division shall promptly submit such supplementary facts or corrected information to the Puget Sound Clean Air Agency. [WAC 173-401-500(6), 11/4/93]

### ***Z. Insignificant emission units and activities***

- 1) Insignificant emission units and activities at King County Solid Waste Division are subject to all applicable requirements set forth in Sections I.A, III and IV. This permit shall not require testing, monitoring, reporting or recordkeeping for insignificant emission units or activities except as required by Puget Sound Clean Air Agency Regulation I, Sections 7.09(b) and 9.20. Compliance with Puget Sound Clean Air Agency Regulation I, Sections 7.09(b) and 9.20 shall be deemed to satisfy the requirements of WAC 173-401-615 and 173-401-630(1). [WAC 173-401-530(2)(c), 11/4/93]
- 2) For insignificant emission units and activities, King County Solid Waste Division does not need to certify compliance under WAC 173-401-630(5). [WAC 173-401-530(2)(d), 11/4/93]
- 3) An emission unit or activity that qualifies as insignificant solely on the basis of WAC 173-401-530(1)(a) shall not exceed the emission thresholds specified in WAC 173-401-530(4) until this permit is modified pursuant to Section VI.E of this permit and WAC 173-401-725. [WAC 173-401-530(6), 11/4/93]

## VI. PERMIT ACTIONS

### ***A. Permit Renewal, Revocation And Expiration***

- 1) **Renewal application.** King County Solid Waste Division shall submit a complete permit renewal application to the Puget Sound Clean Air Agency no later than 12 months prior to the expiration of this permit. The Puget Sound Clean Air Agency will send King County Solid Waste Division a renewal application no later than 18 months prior to the expiration of this permit. Failure of the Puget Sound Clean Air Agency to send King County Solid Waste Division a renewal application shall not relieve King County Solid Waste Division from the obligation to file a timely and complete renewal application. [WAC 173-401-710(1), WAC 173-401-500(2), 11/4/93]
- 2) **Expired permits.** Permit expiration terminates King County Solid Waste Division's right to operate unless a timely and complete renewal application has been submitted consistent with WAC 173-401-710(1) and WAC 173-401-500. All terms and conditions of the permit shall remain in effect after this permit expires if a timely and complete permit application has been submitted. [WAC 173-401-710(3), 11/4/93]
- 3) **Revocation of permits.** The Puget Sound Clean Air Agency may revoke a permit only upon the request of King County Solid Waste Division or for cause. The Puget Sound Clean Air Agency shall provide at least thirty days written notice to King County Solid Waste Division prior to revocation of the permit or denial of a permit renewal application. Such notice shall include an explanation of the basis for the proposed action and afford King County Solid Waste Division an opportunity to meet with the Puget Sound Clean Air Agency prior to Puget Sound Clean Air Agency's final decision. A revocation issued under this condition may be issued conditionally with a future effective date and may specify that the revocation will not take effect if King County Solid Waste Division satisfies the specified conditions before the effective date. Nothing in this subsection shall limit Puget Sound Clean Air Agency's authority to issue emergency orders. [WAC 173-401-710(4), 11/4/93]

### ***B. Administrative Permit Amendments***

- 1) **Definition.** An "administrative permit amendment" is a permit revision that:
  - a) Corrects typographical errors;
  - b) Identifies a change in the name, address, or phone number of any person identified in the permit, or provides a similar minor administrative change at King County Solid Waste Division;
  - c) Requires more frequent monitoring or reporting by King County Solid Waste Division;
  - d) Allows for a change in ownership or operational control of a source where the Puget

Sound Clean Air Agency determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Puget Sound Clean Air Agency;

- e) Incorporates into the permit the terms, conditions, and provisions from orders approving notice of construction applications processed under an EPA-approved program, provided that such a program meets procedural requirements substantially equivalent to the requirements of WAC 173-401-700, 173-401-725, and 173-401-800 that would be applicable to the change if it were subject to review as a permit modification, and compliance requirements substantially equivalent to those contained in WAC 173-401-600 through 173-401-650.

[WAC 173-401-720(1), 11/4/93]

- 2) **Administrative permit amendment procedures**. An administrative permit amendment may be made by the Puget Sound Clean Air Agency consistent with the following:

- a) The Puget Sound Clean Air Agency shall take no more than sixty days from receipt of a request for an administrative permit amendment to take final action on such request, and may incorporate such changes without providing notice to the public or affected states provided that it designates any such permit revisions as having been made pursuant to this paragraph.
- b) The Puget Sound Clean Air Agency shall submit a copy of the revised permit to EPA.
- c) King County Solid Waste Division may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [WAC 173-401-720(3), 11/4/93]

- 3) **Permit shield**. The Puget Sound Clean Air Agency shall, upon taking final action granting a request for an administrative permit amendment, allow coverage by the permit shield in WAC 173-401-640 for administrative permit amendments made pursuant to part (1)(e) of this condition. [WAC 173-401-720(4), 11/4/93]

### ***C. Changes not Requiring Permit Revisions***

- 1) **General**.

- a) King County Solid Waste Division is authorized to make the changes described in this section without a permit revision, providing the following conditions are met:

- i) The proposed changes are not Title I modifications as defined in WAC 174-401-200(33);
  - ii) The proposed changes do not result in emissions which exceed those allowable under the permit, whether expressed as a rate of emissions, or in total emissions;
  - iii) The proposed changes do not alter permit terms that are necessary to enforce limitations on emissions from units covered by the permit; and
  - iv) King County Solid Waste Division provides EPA and the Puget Sound Clean Air Agency with written notification at least seven days prior to making the proposed changes except that written notification of a change made in response to an emergency shall be provided as soon as possible after the event.
- b) Permit attachments. King County Solid Waste Division and the Puget Sound Clean Air Agency shall attach each notice to their copy of the relevant permit.
- 2) **Section 502(b)(10) changes.** Pursuant to the conditions in subsection (1) of this section, King County Solid Waste Division is authorized to make section 502(b)(10) changes (as defined in WAC 173-401-200(28)) without a permit revision.
- a) For each such change, the written notification required under subsection (1)(a)(iv) of this condition shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
  - b) The permit shield authorized under WAC 173-401-640 shall not apply to any change made pursuant to this paragraph.
- 3) **SIP authorized emissions trading.** Pursuant to the conditions in subsection (1) of this condition, King County Solid Waste Division is authorized to trade increases and decreases in emissions in the permitted facility, where the Washington state implementation plan provides for such emissions trades without requiring a permit revision. This provision is available in those cases where the permit does not already provide for such emissions trading.
- a) Under this subsection (3), the written notification required under subsection (1)(a)(iv) of this condition shall include such information as may be required by the provision in the Washington state implementation plan authorizing the emissions trade, including at a minimum, when the proposed change will occur, a description of each such change, any change in emissions, the permit requirements with which King County Solid Waste Division will comply using the emissions trading provisions of the Washington state implementation plan, and the pollutants emitted subject to the emissions trade. The notice shall also refer to the provisions with which King County Solid Waste Division will comply in the applicable implementation plan and that provide for the emissions trade.



- b) The permit shield described in WAC 173-401-640 shall not extend to any change made under this paragraph. Compliance with the permit requirements that King County Solid Waste Division will meet using the emissions trade shall be determined according to requirements of the applicable implementation plan authorizing the emissions trade. [WAC 173-401-722]

#### **D. Off Permit Changes**

- 1) King County Solid Waste Division shall be allowed to make changes not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided that the proposed changes do not weaken the enforceability of existing permit conditions. Any change that is a Title I modification or is a change subject to the acid rain requirements under Title IV of the FCAA must be submitted as a permit revision.
- 2) Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition.
- 3) King County Solid Waste Division must provide contemporaneous written notice to the Puget Sound Clean Air Agency and EPA of each such change, except for changes that qualify as insignificant under WAC 173-401-530. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
- 4) The change shall not qualify for the permit shield under WAC 173-401-640.
- 5) King County Solid Waste Division shall keep a record describing changes made at King County Solid Waste Division that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- 6) When making a change under this section, King County Solid Waste Division shall comply with applicable preconstruction review requirements established pursuant to RCW 70.94.152 and Puget Sound Clean Air Agency Regulation I, Article 6.

[WAC 173-401-724, 11/4/93]

#### **E. Permit Modification**

1. **Definition.** A permit modification is any revision to this permit that cannot be accomplished under provisions for administrative permit amendments under WAC 173-401-720.
2. **Procedures.** Minor permit modification procedures.

- a) Criteria.
- i) Minor permit modification procedures shall be used for those permit modifications that:
    - (1) Do not violate any applicable requirement;
    - (2) Do not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in the permit;
    - (3) Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
    - (4) Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that King County Solid Waste Division has assumed to avoid an applicable requirement to which King County Solid Waste Division would otherwise be subject. Such terms and conditions include:
      - (a) A federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the FCAA; and
      - (b) An alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the FCAA;
    - (5) Are not modifications under any provision of Title I of the FCAA;
  - ii) Notwithstanding i) of this subsection, and subsection 3 of this section, the Puget Sound Clean Air Agency may allow the use of minor permit modification procedures for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that the use of such minor permit modification procedures is explicitly provided for in the Washington state implementation plan or in applicable requirements promulgated by EPA and in effect on April 7, 1993.
- b) Application. An application requesting the use of minor permit modification procedures shall meet the requirements of WAC 173-401-510 and shall include the following:
- i) A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
  - ii) King County Solid Waste Division's suggested draft permit;
  - iii) Certification by a responsible official, consistent with WAC 173-401-520, of the truth, accuracy, and completeness of the application and that the proposed modification meets the criteria for use of minor permit modification procedures
  - iv) and a request that such procedures be used; and

- v) Completed forms for the Puget Sound Clean Air Agency to use to notify EPA and affected states as required under WAC 173-401-810 and 173-401-820.
  - c) King County Solid Waste Division's ability to make change. King County Solid Waste Division may make the change proposed in its minor permit modification application immediately after it files such application provided that those changes requiring the submissions of a notice of construction application have been reviewed and approved by the Puget Sound Clean Air Agency. After King County Solid Waste Division makes the change allowed by the preceding sentence, and until the Puget Sound Clean Air Agency takes any of the actions specified in WAC 173-401-725(2)(d), King County Solid Waste Division must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time period, King County Solid Waste Division does not need to comply with the existing permit terms and conditions it seeks to modify. However, if King County Solid Waste Division fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it.
  - d) Permit shield. The permit shield under WAC 173-401-640 shall not extend to minor permit modifications.
3. **Group processing of minor permit modifications.** Consistent with WAC 173-401-725(3), the Puget Sound Clean Air Agency may process groups of a source's applications for certain modifications eligible for minor permit modification processing.
4. **Significant modification procedures.**
- a) Criteria. Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative permit amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing herein shall be construed to preclude King County Solid Waste Division from making changes consistent with Chapter 173-401 WAC that would render existing permit compliance terms and conditions irrelevant.
  - b) Significant permit modifications shall meet all requirements of Chapter 173-401 WAC, including those for applications, public participation, review by affected states, and review by EPA, as they apply to permit issuance and permit renewal. The Puget Sound Clean Air Agency shall complete review on the majority of significant permit modifications within nine months after receipt of a complete application.

[WAC 173-401-725, 11/4/93]

***F. Reopening for Cause***

- 1) **Standard provisions.** This permit shall be reopened and revised under any of the following circumstances:
  - a) Additional requirements become applicable to King County Solid Waste Division with a remaining permit term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to WAC 173-401-620(2)(j);
  - b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit;
  - c) The Puget Sound Clean Air Agency or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d) The Puget Sound Clean Air Agency or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 2) **Procedures.** Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- 3) **Notice.** Reopenings under this section shall not be initiated before a notice of such intent is provided to King County Solid Waste Division by the Puget Sound Clean Air Agency at least thirty days in advance of the date that the permit is to be reopened, except that the Puget Sound Clean Air Agency may provide a shorter time period in the case of an emergency.

[WAC 173-401-730, 11/4/93]

## VII. PERMIT SHIELD

Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements contained in Sections I through VI of this permit that are specifically identified in this permit as of the date of permit issuance. [WAC 173-401-640(1)]

Nothing in this permit shall alter or affect the following:

- 1) The provisions of Section 303 of the FCAA (emergency orders), including the authority of the administrator under that section;
- 2) The liability of an owner or operator of King County Solid Waste Division for any violation of applicable requirements prior to or at the time of permit issuance;
- 3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the FCAA;
- 4) The ability of EPA to obtain information from a source pursuant to Section 114 of the FCAA; or
- 5) The ability of the Puget Sound Clean Air Agency to establish or revise requirements for the use of reasonably available control technology (RACT) as provided in chapter 252, Laws of 1993.

[WAC 173-401-640(4)]

### VIII. INSIGNIFICANT EMISSION UNITS

As of the date of permit issuance, the emission units listed below are defined as insignificant for the reasons indicated. King County Solid Waste Division does not have to certify that these emission units are in compliance with the generally applicable requirements listed in Section I.A of this permit. [WAC 173-401-530(2)(d)]

Unit	Basis for IEU Designation
Comfort Heating from Unit Heaters Burning Waste Oil (<1/2 MMBTUH)	WAC 173-401-533(2)(h) & (r)
Welding Equipment	WAC 173-401-532(12)
Diesel Dispensing	WAC 173-401-533(2)(c)
Propane Dispensing Station	WAC 173-401-533(2)(d)
Painting Equipment (limited to aerosol cans)	WAC 173-401-533(2)(q)
Special Waste Containers (antifreeze, transmission/hydraulic oils)	WAC 173-401-533(2)(a)
Steam Cleaner	WAC 173-401-532(39)
Calibration Gases (for equipment)	WAC 173-401-533(3)(c)
Safety-Kleen Station	WAC 173-401-533(2)(z)
Vehicle Maintenance	WAC 173-401-532 (7) & (45)
Truck Wash	WAC 173-401-532(45)
Mobile Fueler and Mobile Truck Lube	WAC 173-401-532(2)
Diesel Storage Tanks: (3) 1000-gallon, (1) 500-Gallon Above Ground, (2) 300-Gallon	WAC 173-401-533(2)(c)
Heating Oil Tank: (1) 2000-Gallon	WAC 173-401-533(2)(c)
Hydraulic/Lube Oil Tanks: (2) 2000-Gallon and Waste Oil Tank: (1) 2000-Gallon	WAC 173-401-533(2)(c)
Kerosene, Grease, and Oil Drums (55 gallons each)	WAC 173-401-532(42)
Leachate Aeration Pond	WAC 173-401-530(1)(d)
Wastewater and Leachate Manholes	WAC 173-401-532(120)
VAC Truck Dewaterers at Leachate Pond and Dumps Solids at Fill	WAC 173-401-532(114)

<b>Unit</b>	<b>Basis for IEU Designation</b>
Pump Stations	WAC 173-401-532(120)
Leachate Collection Systems-Grease Traps	WAC 173-401-532(120)
Cleanouts	WAC 173-401-532(120)
Airvacs on Force Main	WAC 173-401-532(120)
Pig-Launching Stations at Cleanouts	WAC 173-401-532(120)
LEPS	WAC 173-401-532(120)
Air Compressor (electric)	WAC 173-401-532(88)
Stormwater Manholes	WAC 173-401-532(120)
Stormwater Ponds	WAC 173-401-530(1)(d)
Groundwater Monitoring Wells	WAC 173-401-532(51)
Roads (sweep and water for dust control)	WAC 173-401-532(35)
Air Compressor Building at Landfill	WAC 173-401-532(88)
Waste Dump into Landfill	WAC 173-401-530(1)(d)
Daily Cover Placement	WAC 173-401-530(1)(d)
Office Activities	WAC 173-401-532(49)
Staff Vehicles	WAC 173-401-532(54)
Bathroom Vents	WAC 173-401-532(48)
Window Air Conditioners	WAC 173-401-532(46)

## **IX. APPENDIXES**

### ***A. Non-EPA Test Methods***

- 1) Puget Sound Clean Air Agency Method 5
- 2) Ecology Method 9A
- 3) CARB test procedure TP-201.3 adopted April 12, 1996 (Pressure Decay)
- 4) CARB test procedure TP-210.4 adopted April 12, 1996 (Back Pressure)
- 5) WOGVACC Back Pressure Tests Form updated February 23, 1998
- 6) WOGVACC Pressure Decay Test Form updated July 9, 1997

### ***B. Non-EPA Design Requirements for Gasoline Storage Tank Vapor Recovery Systems***

- 1) CARB Executive Order G-70-97-A (Stage 1)
- 2) CARB Executive Order G-70-52-AM (Stage 2)