

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1: FILM COATING</b>					
COATER, VERTICAL FILM NO.1 WITH A/N: 493451	D1	C19 C45		VOC: (9) [RULE 1128, 3-8-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	E193.1, H23.1
PROCESS TANK, DIP, WIDTH: 2 FT 5 IN; HEIGHT: 8 FT 1 IN; LENGTH: 4 FT	D2				
COATER, VERTICAL FILM NO. 2 WITH A/N: 493415	D3	C19 C45		VOC: (9) [RULE 1128, 3-8-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	E193.1, H23.1
PROCESS TANK, DIP, WIDTH: 2 FT 5 IN; HEIGHT: 7 FT 1 IN; LENGTH: 4 FT	D4				
COATER, VERTICAL FILM NO. 4 WITH A/N: 493412	D7	C19 C45		VOC: (9) [RULE 1128, 3-8-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	E193.1, H23.1
PROCESS TANK, DIP, WIDTH: 2 FT 2 IN; HEIGHT: 6 FT 11 IN; LENGTH: 4 FT	D8				
COATER, HORIZONTAL FILM NO. 1 A/N: 493422	D9	C19 C45		VOC: (9) [RULE 1128, 3-8-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	E193.1, H23.1
PROCESS TANK, DIP, FILM COATING, WIDTH: 6 IN; HEIGHT: 11 IN; LENGTH: 21 FT A/N: 491489	D12	C19 C45		VOC: (9) [RULE 1128, 3-8-1996; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	E193.1, H23.1
OVEN, DRYING, NATURAL GAS, 1.2 MMBTU/HR A/N: 491489	D13	C19 C45	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C6.1, E193.1, K67.4

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

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<b>Process 1: FILM COATING</b>					
OVEN, DRYING, NO.2, 16 KW A/N: 493420	D14	C19 C45		PM: (9) [RULE 404, 2-7-1986]	C6.1, E193.1
OVEN, DRYING, NO.3, 16 KW A/N: 493419	D15	C19 C45		PM: (9) [RULE 404, 2-7-1986]	C6.1, E193.1
OVEN, DRYING, NO. 4, 16 KW A/N: 493417	D16	C19 C45		PM: (9) [RULE 404, 2-7-1986]	C6.1, E193.1
SPRAY COATING OPERATION, SOLVENT, BLEEKER BROS., MODEL NO. F-5-7, 5 FT-10 INCH W. X 7 FT H. X 7 FT-8 INCH D., WITH SPRAY BOOTH A/N:	D18	C19 C45		PM: (9) [RULE 404, 2-7-1986]; VOC: (9) [RULE 1128, 3-8-1996]; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	C6.2, D322.1, E175.1, E193.1, H23.2, K67.2
<b>Process 2: NEW FILM COATING LINE</b>					
COATER, HORIZONTAL FILM NO. 3 A/N: 493425	D23	C19 C45		VOC: (9) [RULE 1128, 3-8-1996]; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	B27.1, E193.1, H23.1
OVEN, DRYING, NO. 1, 41 KW A/N: 493425	D24	C19 C45		PM: (9) [RULE 404, 2-7-1986]; VOC: (9) [RULE 1128, 3-8-1996]; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	B27.1, E193.1, H23.1
<b>Process 3: AFTERBURNER</b>					
AFTERBURNER, HANEY BURNER, MODEL NO. MJGW-60, 15 MMBTU/HR, NATURAL GAS, WITH WATER INJECTION, AND CONTINUOUS EXHAUST FLOW MONITOR A/N: 493439	C19	D1 D3 D7 D9 D12 D13 D14 D15 D16 D18 D23 D24 C39	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 15 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A72.1, A416.1, D12.1, D28.1, D29.1, E193.1, E193.3, K40.1, K67.4
<b>Process 4: SOLVENT RECLAMATION</b>					
<b>System 1: STILL</b>					

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| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 4: SOLVENT RECLAMATION</b>					
STILL, FINISH THOMPSON INC., MODEL NO. LS-55IE, 55GALLON, ELECTRIC, 6 FT 3 IN W. X 3 FT 4 IN D. X 5 FT H., WATER COOLED A/N: 493437	D27				C6.4
<b>Process 5: INTERNAL COMBUSTION</b>					
<b>System 1: EMERGENCY</b>					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, SIX CYLINDER, DIESEL FUEL, PERKINS, MODEL 1006-6T, WITH TURBOCHARGER, 166 BHP A/N: 493427	D28		NOX: PROCESS UNIT**	<b>NOX:</b> 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; <b>PM:</b> (9) [RULE 404, 2-7-1986]	B59.1, C1.1, H23.6, K67.1
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, TWELVE CYLINDER, DIESEL FUEL, DETROIT DIESEL, MODEL 12V-4000, WITH AFTERCOOLER, TURBOCHARGER, 2200 BHP A/N: 493438	D30		NOX: PROCESS UNIT**	<b>NOX:</b> 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; <b>PM:</b> (9) [RULE 404, 2-7-1986]	B59.1, C1.1, H23.6, K67.1
<b>Process 6: Rule 219 Exempt Equipment Subject to Source-Specific Requirements</b>					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E31			<b>VOC:</b> (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	K67.3
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E32				H23.3
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E33				H23.4

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 6: Rule 219 Exempt Equipment Subject to Source-Specific Requirements</b>					
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E34				H23.5
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E35			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.1
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, SMALL, ADHESIVE OPERATIONS	E36			VOC: (9) [RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 2-1-2008]	H23.1
RULE 219 EXEMPT EQUIPMENT, MIXERS, LOAD/UNLOAD, SMALL, COATING MIXING OPERATIONS	E40	C37 C38 C39 C43 C44		PM: (5) [RULE 405, 2-7-1986]	
<b>Process 7: BAGHOUSE</b>					
BAGHOUSE, SERIAL NO. 61819, SCIENTIFIC, MODEL LP-2, 2 FT 9.5 IN W. X 1 FT 11.75 IN D. X 7 FT 5.5 IN H., 5 H.P. BLOWER, 500 SQ.FT.; 2 CARTRIDGE A/N: 493441	C37	E40		PM: (9) [RULE 404, 2-7-1986]	D12.2, D322.2, D381.1, E102.1, K67.5
BAGHOUSE, SERIAL NO. IG488788, DONALDSON TORIT, MODEL VS-1500, 1 FT 8 IN W. X 2 FT 4 IN D. X 11 FT 3.25 IN H., 5 H.P. BLOWER, 177 SQ.FT.; 1 CARTRIDGE A/N: 493442	C38	E40		PM: (9) [RULE 404, 2-7-1986]	D12.2, D322.2, D381.1, E102.1, K67.5
BAGHOUSE, SERIAL NO. IG447900-001, DONALDSON TORIT, MODEL SDF6, 1 FT 8 IN W. X 2 FT 4 IN D. X 11 FT 3.25 IN H., 7.5 H.P. BLOWER, 330 SQ.FT.; 6 CARTRIDGE A/N: 493443	C39	C19 E40 C45		PM: (9) [RULE 404, 2-7-1986]	D12.2, D322.2, E102.1, E193.1, K67.5

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor<br/>         (3) Denotes RECLAIM concentration limit<br/>         (5) (5A) (5B) Denotes command and control emission limit<br/>         (7) Denotes NSR applicability limit<br/>         (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate<br/>         (4) Denotes BACT emission limit<br/>         (6) Denotes air toxic control rule limit<br/>         (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br/>         (10) See section J for NESHAP/MACT requirements</p> |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 7: BAGHOUSE</b>					
BAGHOUSE, UNITED AIR SPECIALISTS, MODEL SFC4-2-SD, FILTER MODEL SF255, 4 FT 4.5 IN W. X 3 FT 7 IN D. X 7 FT 8 IN H., 5 H.P. BLOWER, 1020 SQ.FT.; 4 CARTRIDGE A/N: 496382	C43	E40		PM: (9) [RULE 404, 2-7-1986]	D12.2, D322.2, D381.1, E102.1, E193.4, K67.5
BAGHOUSE, UNITED AIR SPECIALISTS, MODEL VF-1500-SD, FILTER MODEL SF283, 4 FT 4.5 IN W. X 2 FT D. X 6 FT 4 IN H., 5 H.P. BLOWER, 283 SQ.FT.; 1 CARTRIDGE A/N: 496384	C44	E40		PM: (9) [RULE 404, 2-7-1986]	D12.2, D322.2, D381.1, E102.1, E193.4, K67.5
<b>Process 8: SILVER CLASSIFICATION</b>					
SCREEN, CLASSIFYING, HK TECHNOLOGIES, GLOVE-BOX TYPE ENCLOSURE, 5 FT W. X 3 FT D. X 5 FT 10 IN H., WITH AN ULTRASONIC VIBRATORY SHAKER A/N: 493926	D41	C42		PM: (9) [RULE 405, 2-7-1986]	B59.2, E193.2
SCREEN, CLASSIFYING, TYLER, GLOVE-BOX TYPE ENCLOSURE, MODEL NO. R-30050, WITH AN ULTRASONIC VIBRATORY SHAKER, MODEL RX-29 RO-TAP A/N:	D46	C42		PM: (9) [RULE 404, 2-7-1986]	B59.3
FILTER, AIR CLEANING SOLUTION, MODEL MFC 1200/3, 2 FT 3 IN W X 2 FT 6 IN L X 3 FT 3 IN H, WITH A WASHABLE PRE-FILTER, HEPA FILTER (376 SQ. FT.) AND A 1.5 H.P. BLOWER A/N:	C42	D41 D46		PM: (9) [RULE 404, 2-7-1986]	D12.3, D322.1, D381.1, E102.1, E193.2, K67.5

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| * (1) (1A) (1B) Denotes RECLAIM emission factor<br>(3) Denotes RECLAIM concentration limit<br>(5) (5A) (5B) Denotes command and control emission limit<br>(7) Denotes NSR applicability limit<br>(9) See App B for Emission Limits | (2) (2A) (2B) Denotes RECLAIM emission rate<br>(4) Denotes BACT emission limit<br>(6) Denotes air toxic control rule limit<br>(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)<br>(10) See section J for NESHAP/MACT requirements |
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\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 9: LASER CUTTER</b>					
CUTTER, LASER, RESONETICS, IN A CABINET, 5 FT 4.5 IN L X 3 FT 9.4 IN W X 6 FT 3.7 IN H, WITH A COHERANT DIAMOND K-2251 HEAD A/N:	D47			PM: (9) [RULE 404, 2-7-1986]	B59.3

\* (1) (1A) (1B) Denotes RECLAIM emission factor  
 (3) Denotes RECLAIM concentration limit  
 (5) (5A) (5B) Denotes command and control emission limit  
 (7) Denotes NSR applicability limit  
 (9) See App B for Emission Limits  
 (2) (2A) (2B) Denotes RECLAIM emission rate  
 (4) Denotes BACT emission limit  
 (6) Denotes air toxic control rule limit  
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (10) See section J for NESHAP/MACT requirements

\*\* Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

# **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

## **SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE  
 HENKEL CORPORATION  
 SECTION D: DEVICE ID INDEX**

<b>Device Index For Section D</b>			
<b>Device ID</b>	<b>Section D Page No.</b>	<b>Process</b>	<b>System</b>
D1	1	1	0
D2	1	1	0
D3	1	1	0
D4	1	1	0
D7	1	1	0
D8	1	1	0
D9	1	1	0
D12	1	1	0
D13	1	1	0
D14	2	1	0
D15	2	1	0
D16	2	1	0
D18	2	1	0
C19	2	3	0
D23	2	2	0
D24	2	2	0
D27	3	4	1
D28	3	5	1
D30	3	5	1
E31	3	6	0
E32	3	6	0
E33	3	6	0
E34	4	6	0
E35	4	6	0
E36	4	6	0
C37	4	7	0
C38	4	7	0
C39	4	7	0
E40	4	6	0
D41	5	8	0
C42	5	8	0
C43	5	7	0
C44	5	7	0
D46	5	8	0
D47	6	9	0

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 118 LBS IN ANY ONE DAY

The operator shall calculate the VOC emissions using 95 percent overall control efficiency for equipment vented to the afterburner control device.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

F2.2 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY 12-MONTH PERIOD
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY 12-MONTH PERIOD

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

To maintain exemption from the requirements of 40 CFR 63, Subpart JJJJ, the operator shall comply with the Volatile Hazardous Air Pollutant (VHAP) emission limits of this condition. To ensure compliance with the VHAP emission limits of this condition, the operator shall comply with the following recordkeeping requirements

(a) Comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions)

(b) Within 14 calendar days after the end of each month, total and record VHAP emissions for the month and for the previous 12 month period from all equipment and operations that are required to have written permits or exempt from written permits pursuant to Rule 219. The record shall include any procedures used to account for control device efficiencies and/or waste disposal. It shall be signed and certified for accuracy by the highest ranking individual responsible for compliance with District rules

(c) Maintain a single list which includes only the name and address of each person from whom the facility acquired VHAP-containing material regulated by the District that was used or stored at the facility during the preceding 12 months

(d) Retain all purchase invoices for all VHAP-containing material used or stored at the facility, and all waste manifests for all waste VHAP-containing material removed from the facility

(e) Retain all records required by this permit at the facility for five years, and make all records available to any District representative upon request

**[40CFR 63 Subpart JJJJ, 5-24-2006]**

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

#### The operator shall comply with the terms and conditions set forth below:

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.05 percent by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

This condition shall become effective on or after June 1, 2004.

[RULE 431.2, 9-15-2000]

### DEVICE CONDITIONS

#### A. Emission Limits

A72.1 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 95 percent for VOC during the normal operation of the equipment it vents.

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

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**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C19]

A416.1 Notwithstanding Section E administrative condition No. 7B, for compliance with NOX emission limit of 15 PPMV, NOX emissions from the afterburner (DEVICE NO. C19) and drying oven (DEVICE NO. D13) shall not be corrected for oxygen and shall be at actual stack conditions.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C19]

#### **B. Material/Fuel Type Limits**

B27.1 The operator shall not use materials containing any compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D23, D24]

B59.1 The operator shall only use the following material(s) in this device :

Diesel fuel with sulfur content not to exceed 0.05 percent by weight.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D28, D30]

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

#### The operator shall comply with the terms and conditions set forth below:

B59.2 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in Rule 1401, Table 1 with an effective date of May 2, 2003 or earlier.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D41]

B59.3 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in Rule 1401, Table 1 with an effectived date of June 5, 2009 or earlier.

[RULE 1401, 6-5-2009]

[Devices subject to this condition : D46, D47]

#### C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operation to no more than 199 hour(s) in any one year.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 2-1-2008; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**  
**RULE 2012, 5-6-2005]**

[Devices subject to this condition : D28, D30]

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

C6.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 300 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the oven.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D13, D14, D15, D16]

C6.2 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 0.25 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the exhaust filters.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D18]

C6.4 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 320 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the still.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D27]

#### **D. Monitoring/Testing Requirements**

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

- D12.1 The operator shall install and maintain a(n) stack flow monitor to accurately indicate the flow rate from the afterburner stack to provide instantaneous and cumulative actual flow rate from the drying oven and afterburner. Such flow monitor shall be maintained and calibrated in accordance with the system maintenance procedures and schedules.

NO<sub>x</sub> emissions from the afterburner shall be calculated using the NO<sub>x</sub> RECLAIM concentration limit of 15 ppmv and the stack flow rate at stack conditions (no correction for oxygen) by using Rule 2012 Appendix A, Chapter 3, equation 17b

The NO<sub>x</sub> emissions calculated for the afterburner under Device No. C19 or C45 already include the NO<sub>x</sub> emissions from oven D13. The operator is not required to calculate the individual NO<sub>x</sub> emissions from each equipment

When valid exhaust flow rate of an afterburner is not obtained from the stack flow monitor, substituted data from the exhaust flow rate for the afterburner shall be determined by using procedures in the certification letter for the continuous exhaust flow monitor and the missing data procedures applicable to flow as set forth in Rule 2012 Appendix A, Chapter 3

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C19]

- D12.2 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the cartridge filters.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C37, C38, C39, C43, C44]

- D12.3 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C42]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the actual NO<sub>x</sub> concentration at the stack level and to validate the recertification for the continuous exhaust flow monitor once every three years pursuant to a District approved protocol.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C19]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
VOC	Approved District method	1 hour	Simultaneous inlet and outlet

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

The test(s) shall be conducted at least once every five years.

The test shall be conducted no later than February 4, 2011 unless otherwise approved in writing by the District.

The test shall be conducted to determine the VOC emissions using an approved District method to demonstrate compliance with all applicable permit condition(s), Rules and Regulations.

The test shall be conducted while the afterburner is operating at a temperature of not less than the minimum operating temperature specified in this permit. If the operating temperature during the source test is greater than the minimum operating temperature specified in this permit, the minimum operating temperature specified in this permit may be increased to reflect the operating temperature during the source test.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C19]

D322.1 The operator shall perform a weekly inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D18, C42]

D322.2 The operator shall perform annual inspection of the equipment and cartridge filter media for leaks, broken or torn filter media, and improperly installed filter media.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C37, C38, C39, C43, C44]

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

**The operator shall comply with the terms and conditions set forth below:**

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C37, C38, C42, C43, C44]

#### **E. Equipment Operation/Construction Requirements**

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C37, C38, C39, C42, C43, C44]

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

E175.1 The operator shall not use this equipment unless all exhaust air passes through the following:

filter media at least 2 inches thick

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D18]

E193.1 The operator shall operate and maintain this equipment according to the following specifications:

Permanent Total Enclosure as per requirements of EPA method 204.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : D1, D3, D7, D9, D12, D13, D14, D15, D16, D18, C19, D23, D24, C39]

E193.2 The operator shall construct this equipment according to the following requirements:

Construction of the equipment shall be completed within one year from the date of issuance of this permit unless an extension is granted by the Executive Officer.

**[RULE 205, 1-5-1990]**

[Devices subject to this condition : D41, C42]

E193.3 The operator shall operate and maintain this equipment according to the following requirements:

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

#### **The operator shall comply with the terms and conditions set forth below:**

The combustion chamber temperature shall be maintained at a minimum of 1400 degrees Fahrenheit whenever the equipment it serves is in operation

The operator shall operate and maintain a temperature measuring and recording system to continuously measure and record the combustion chamber temperature pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications

For the purpose of this condition, a deviation shall be defined as when the combustion chamber temperature of less than 1400 degrees Fahrenheit occurs during the normal operation of the equipment it serves. The operator shall review the records of the combustion temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the combustion chamber temperature at or above 1,400 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken

All deviation shall be reported to the AQMD pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if an accumulation of deviations exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; 40CFR Part 64, 10-22-1997]**

[Devices subject to this condition : C19]

E193.4 The operator shall operate and maintain this equipment according to the following requirements:

The dust collector pressure differential across the cartridge filters does not exceed 6" of water column whenever the equipment it serves is in operation.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C43, C44]

#### **H. Applicable Rules**

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

**[RULE 109, 5-2-2003]**

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

[Devices subject to this condition : D1, D3, D7, D9, D12, D23, D24, E35, E36]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109
PM	District Rule	481

**[RULE 109, 5-2-2003; RULE 481, 1-11-2002]**

[Devices subject to this condition : D18]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

**[RULE 1122, 10-1-2004]**

[Devices subject to this condition : E32]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415
Refrigerants	40CFR82, SUBPART	F

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1415, 10-14-1994; 40CFR 82 Subpart F, 5-14-1993]

[Devices subject to this condition : E33]

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

[RULE 1418, 9-10-1999]

[Devices subject to this condition : E34]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

[RULE 1470, 6-1-2007]

[Devices subject to this condition : D28, D30]

#### **K. Record Keeping/Reporting**

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

#### The operator shall comply with the terms and conditions set forth below:

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

NOx emission data shall be submitted in terms of concentration (ppmv), dry basis.

Source test results shall be submitted to the District no later than 90 days after the source test was conducted.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]**

[Devices subject to this condition : C19]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Date of operation, the elapsed time in hours, and reason for operation.

**[RULE 1110.2, 2-1-2008; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996; RULE 2012, 5-6-2005]**

[Devices subject to this condition : D28, D30]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

weekly record of pressure drop across the filter media

## **FACILITY PERMIT TO OPERATE HENKEL CORPORATION**

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D18]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E31]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

## FACILITY PERMIT TO OPERATE HENKEL CORPORATION

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

**The operator shall comply with the terms and conditions set forth below:**

NOx emissions from afterburner (device no. C19 or C45) and oven (device no. D13) shall be calculated @ 15 ppm in the stack flow rate at stack condition (no correction for oxygen) by using Rule 2012, Appendix A, Chapter 3, Equation 17b.

When valid exhaust flowrate is not available, NOx emission shall be calculated pursuant to the missing data procedure in the certification letter for the continuous exhaust flow monitor and Rule 2012, Appendix A, Chapter 3.

Within 14 days after the end of the month, total and record hours of operation for the start-up burner of device (C45) for the month to verify compliance with condition C-409.1.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : D13, C19]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Name of person conducting inspection and maintenance of the filter media.

Date, time and results of inspection.

Date, time and description of repairs made.

Weekly record of pressure drop across the filter media.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C37, C38, C39, C42, C43, C44]