FACILITY PERMIT TO OPERATE

NORTHROP GRUMMAN SYSTEMS
3301 1700 AVIATION & ROSECRANS
MANHATTAN BEACH, CA 90266

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By _____ FOR
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: CONTROL EQUIPMENT					
SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 56-3, VENTING RULE 219 EXEMPT AUTOMOTIVE AIRBAG SENSOR RESEARCH LAB EQUIPMENT A/N: 412445	C2			**PM**: (9) [**RULE 404, 2-7-1986**]	B27.4, C8.6, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 55-4 A/N:	C4	D38 D590 D591 D592		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.2, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 78-4, WIDTH: 8FT, LENGTH: 6FT 3IN, DEPTH:7FT, WITH A 4FT PACKING DEPTH, A 30-HP EXHAUST FAN AND THREE 2-HP RECIRCULATION PUMPS A/N:	C6	E419 D420 E421 E422 E423 E424 D425 D427 D428 D429 D430 D431 D432 D433 D434 D435 D438 D439 D440 D441 D442 E479 D501 D502 D503 D505 E506 D525 D573		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, E159.1, K67.3
CONDENSER, REFRIGERATED A/N: 412373	C10	D111			
SCRUBBER, AMERICAN AIR FILTER, WITH TWO MIST ELIMINATOR SECTIONS, WIDTH: 3 FT 6 IN; HEIGHT: 4 FT 7 IN; LENGTH: 1 FT 2 IN A/N: 416730	C13	C14 D198 E488 E489 E490 E491 E492 E493 E494		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.4, C8.9, D90.1, K67.3

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(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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Process 1: CONTROL EQUIPMENT					
FILTER, CARBON TYPE, CAMBRIDGE FILTER CORP., MODEL STM 20-20, WIDTH: 2 FT 2 IN; HEIGHT: 2 FT 3 IN; LENGTH: 5 FT A/N: 416730	C14	C13			E149.2
ADSORBER, W/ A 30 LB ACTIVATED CARBON BASKET, EMERGENCY VENTING RULE 219 EXEMPT FLUORINE STORAGE AND FEED SYSTEM EQUIPMENT, HEIGHT: 5 FT 6 IN; DIAMETER: 8 IN A/N: 412394	C15				E149.1
FILTER, W/ 55 LBS OF CARBON, RESONETICS, MODEL VAPURE, WIDTH: 2 FT 2 IN; HEIGHT: 3 FT 4 IN; LENGTH: 2 FT 2 IN A/N: 412400	C16	D120			E149.3
SCRUBBER, FS42, HARRINGTON, WITH A MIST ELIMINATOR SECTION A/N: 441123	C159	D55 D56 D57 D59 D62 D63 D64 D68 D70 D71 D73 D179 C308 D461 D463		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.2, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, FS21, HARRINGTON, WITH A MIST ELIMINATOR SECTION A/N:	C160	D183 D189 D211 D371 D373 D374 D375 D378 D382 D386 D388 D390 D391 D394 D395 D403 D404 D478 D528 D539 D574		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, E159.1, K67.3

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Process 1: CONTROL EQUIPMENT					
SCRUBBER, FS-41, HARRINGTON, MODEL NO. HPH 78- FB, MIST ELIMINATOR, A 15 H.P. EXHAUST FAN, 9 FT 8 IN W. X 15 FT L. X 10 FT 1 IN H., WITH THREE 3-HP WATER CIRCULATION PUMP A/N: 445586	C161	D94 D96 D97 D98 D99 D100 D101 E280 E281 E282 E283 E284 E285 E286 D300 D306 D475 D510 D511 D512 D513 D514 D515 D516 D517 D518 D519 D520 D521 D522 D523 D524		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.5, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, AMERICAN AIR FILTER, WITH ONE REACTION PAD AND TWO MIST ELIMINATOR SECTIONS, WIDTH: 3 FT 6 IN; HEIGHT: 4 FT 7 IN; LENGTH: 1 FT 2 IN A/N: 412404	C162	D198		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.10, C8.11, E71.1
SCRUBBER, PACKED BED, HARRINGTON, HPH 66-4, WIDTH:7FT 3IN; HEIGHT: 8FT 2IN; LENGTH: 10FT 5IN;, WITH A 4FT PACKING DEPTH, A20-HP EXHAUST FAN, AND THREE 2-HP CIRCULATION PUMPS A/N:	C232	D349 D372 D383 D397 D398 D406 D407 D447 D477 D507 D508 D509 D552 D584		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.1, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, HPH 78-4 A/N:	C233	D182 D210 D243 D244 D245 D255 D348 D450 D451 D551		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, K67.3

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Process 1: CONTROL EQUIPMENT					
OXIDIZER, HOT BED, NATURAL GAS, 1.5 MMBTU/HR A/N: 476326	C332	D482	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D29.2, E193.1, K40.1
OXIDIZER, THERMAL, NO. 4, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N:	C364	D346 D347 D350 D352 D353 D354 D355 D357 D358 D359 D361	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, D29.2, E193.1, K40.1
OXIDIZER, HOT BED, NO. 1, ALLIANCE SYSTEMS, MODEL NO. 308-RTO,, NATURAL GAS, THREE ZONES, 8 FT W. X 30 FT 3 IN L. X 9 FT 1 IN H., 1.5 MMBTU/HR A/N: 445594	C455	D79 D80 D81 D154 D173 D174 D178 D276 D277 D278 D279 D289 D335 D338 D411 D412 D413 D414 D415 D416 D417 D474 D476 D550	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, A72.2, D28.7, D29.2, E193.1, K40.1

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(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Process 1: CONTROL EQUIPMENT					
OXIDIZER, THERMAL, NO. 2, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N:	C460	D157 D301 D481	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, D29.2, E193.1, K40.1
SCRUBBER, PACKED BED, AAF COLAG, MODEL NO. 21, WITH A SINGLE REACTION PAD, 2000 CFM EXHAUST, VENTING GAS CABINET W/ NITROGEN TETROXIDE A/N: 412356	C467			**PM**: (9) [**RULE 404, 2-7-1986**]	C8.12, C8.13, D90.2, E158.1, K67.3
OXIDIZER, HOT BED, NO. 3, GRACE TEC SYSTEMS, MODEL NO. ENTERPRISE IIL-060, NATURAL GAS, TWO ZONES, 8 FT W. X 18 FT L. X 10 FT H., 1.5 MMBTU/HR A/N:	C305	D76 D77 D78 D82 D274 D299 D303 D304 D333 D337 D498 D549 D571 D572	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, A72.3, D29.2, E193.1, K40.1
SCRUBBER, HARRINGTON, PACKED BED, MODEL ECH 67-3TPS A/N: 445582	C529	D530 D531 D532 D533 D534 D535 D536 D538 D540 D541 D542 D543 D544 D545 D546 D547		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, E159.1, K67.3
Process 2: EXTERNAL COMBUSTION					

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Process 2: EXTERNAL COMBUSTION					
BOILER, NO. 543, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 5 MMBTU/HR WITH A/N: 412380 BURNER, NATURAL GAS, POWER FLAME LO-NOX, WITH LOW NOX BURNER, 5 MMBTU/HR	D19		NOX: PROCESS UNIT**	**CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146, 11-17-2000**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 47.75 LBS/MMSCF NATURAL GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D111.1, D332.2
BOILER, NATURAL GAS, WITH AJAX BURNERS, 2.75 MMBTU/HR A/N: 412407	D21		NOX: PROCESS UNIT**	**CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D332.1

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Process 2: EXTERNAL COMBUSTION					
BOILER, NATURAL GAS, WITH POWERFLAME BURNER, WITH FLUE GAS RECIRCULATION, 2.5 MMBTU/HR WITH A/N: 412583 BURNER, NATURAL GAS, POWER FLAME LO-NOX, MODEL CR2-G-20A, 2.5 MMBTU/HR	D22		NOX: PROCESS UNIT**	**CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 38.46 LBS/MMSCF NATURAL GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D332.1
BOILER, NO. 638, NATURAL GAS, AJAX, MODEL SGXFD-5000, WITH FLUE GAS RECIRCULATION, 4.718 MMBTU/HR WITH A/N: 412431 BURNER, NATURAL GAS, POWER FLAME LO-NOX, MODEL CR3-G-25, 4.718 MMBTU/HR	D24		NOX: PROCESS UNIT**	**CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 38.46 LBS/MMSCF NATURAL GAS (1) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D332.1

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BOILER, NATURAL GAS, CLEAVER BROOKS, MODEL FLX-450, WITH LOW NOX BURNER, 4.5 MMBTU/HR WITH A/N: 412435 BURNER, NATURAL GAS, ALZETA, MODEL CSB11-1SO-20, WITH LOW NOX BURNER, 4.5 MMBTU/HR	D314		NOX: PROCESS UNIT**	**CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 20 PPMV NATURAL GAS (3) [**RULE 2012, 5-6-2005**]; **NOX**: 20 PPMV NATURAL GAS (4) [**RULE 2005, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D28.1, D332.1, K40.2
BOILER, NATURAL GAS, AJAX, MODEL WGFD-5000, WITH LOW NOX BURNER, 4.8 MMBTU/HR WITH A/N: 412386 BURNER, NATURAL GAS, ALZETA, LOW NOX, MODEL CSB11-ISO-20, WITH LOW NOX BURNER, 4.8 MMBTU/HR	D321		NOX: PROCESS UNIT**	**CO**: 100 PPMV NATURAL GAS (4) [**RULE 1303(a)(1) -BACT, 5-10-1996**]; **CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146, 11-17-2000**]; **CO**: 2000 PPMV (5A) [**RULE 407, 4-2-1982**]; **NOX**: 12 PPMV NATURAL GAS (3) [**RULE 2012, 5-6-2005**]; **NOX**: 12 PPMV NATURAL GAS (4) [**RULE 2005, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D28.1, D332.3, K40.2

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Process 2: EXTERNAL COMBUSTION					
BOILER, NATURAL GAS, CLEAVER-BROOKS, MODEL FLX 450, WITH LOW NOX BURNER, 4.5 MMBTU/HR WITH A/N: 412447 BURNER, NATURAL GAS, ALZETA, MODEL CSB50, 4.5 MMBRU/HR, WITH LOW NOX BURNER	D365		NOX: PROCESS UNIT**	**CO**: 50 PPMV NATURAL GAS (4) [**RULE 1303(a)(1)-BACT, 5-10-1996**]; **CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV NATURAL GAS (5A) [**RULE 407, 4-2-1982**]; **NOX**: 12 PPMV NATURAL GAS (4) [**RULE 2005, 5-6-2005**]; **NOX**: 12 PPMV NATURAL GAS (3) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF NATURAL GAS (5) [**RULE 409, 8-7-1981**]	D182.1, D332.3

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Process 2: EXTERNAL COMBUSTION					
BOILER, NATURAL GAS, PARKER, MODEL T2970 LR, WITH LOW NOX BURNER, 2.97 MMBTU/HR WITH A/N: 412414 BURNER, NATURAL GAS, PARKER, MODEL PREMIX METAL FIBER, WITH LOW NOX BURNER, 2.97 MMBTU/HR	D457		NOX: PROCESS UNIT**	**CO**: 100 PPMV NATURAL GAS (4) [**RULE 1303(a)(1) -BACT, 5-10-1996**]; **CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 12 PPMV NATURAL GAS (3) [**RULE 2012, 5-6-2005**]; **NOX**: 12 PPMV NATURAL GAS (4) [**RULE 2005, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF (5) [**RULE 409, 8-7-1981**]	D182.1, D332.3
BOILER, WATER TUBE, NATURAL GAS, PARKER, MODEL T-2970LR, WITH LOW NOX BURNER, 2.97 MMBTU/HR A/N: 464106	D593		NOX: PROCESS UNIT**	**CO**: 100 PPMV NATURAL GAS (4) [**RULE 1303(a)(1) -BACT, 5-10-1996**]; **CO**: 400 PPMV NATURAL GAS (5) [**RULE 1146.1, 5-13-1994**]; **CO**: 2000 PPMV NATURAL GAS (5A) [**RULE 407, 4-2-1982**]; **NOX**: 12 PPMV NATURAL GAS (4) [**RULE 2005, 5-6-2005**]; **NOX**: 12 PPMV NATURAL GAS (3) [**RULE 2012, 5-6-2005**]; **PM**: 0.1 GRAINS/SCF NATURAL GAS (5) [**RULE 409, 8-7-1981**]	D28.8, D182.3, D332.3, K40.2
Process 3: INTERNAL COMBUSTION					

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

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FACILITY PERMIT TO OPERATE
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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
Process 3: INTERNAL COMBUSTION					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA19-G2, WITH AFTERCOOLER, TURBOCHARGER, 600 HP A/N: 414513	D27		NOX: PROCESS UNIT**	**NOX**: 469 LBS/1000 GAL DIESEL (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]	B163.1, C1.2, C1.7, H23.9
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL NT-855-G, WITH TURBOCHARGER, 355 HP A/N: 412586	D30		NOX: PROCESS UNIT**	**NOX**: 469 LBS/1000 GAL DIESEL (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]	C1.9, D135.1, H23.9, K67.4
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL NT-855-G, WITH TURBOCHARGER, INTAKE AIR COOLER, 425 HP A/N: 412584	D31		NOX: PROCESS UNIT**	**NOX**: 469 LBS/1000 GAL DIESEL (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]	C1.9, D135.1, H23.9, K67.4
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTA 1150-G2, WITH TURBOCHARGER, INTAKE AIR COOLER, 600 HP A/N: 423923	D32		NOX: PROCESS UNIT**	**NOX**: 469 LBS/1000 GAL DIESEL (1) [**RULE 2012, 5-6-2005**]; **PM**: (9) [**RULE 404, 2-7-1986**]	B163.1, C1.2, C1.7, H23.9
Process 4: DEGREASERS					P13.2
DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL MLR-120XLE, WIDTH: 4 FT ; HEIGHT: 2 FT 3 IN; LENGTH: 4 FT A/N: 445615	D290				B27.1, B59.1, C1.35, D322.2, H339.1, K48.3

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

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FACILITY PERMIT TO OPERATE
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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
Process 4: DEGREASERS					P13.2
DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL MLR-120XLE, WIDTH: 4 FT ; HEIGHT: 2 FT 3 IN; LENGTH: 4 FT A/N: 412384	D291				B27.1, B59.1, C1.35, D322.2, H339.1, K48.3
DEGREASER, VAPOR, WITH CONDENSER, BARON-BLAKESLEE, MODEL 37-14-21-VLE, WIDTH: 1 FT 6 IN; LENGTH: 3 FT 5 IN; HEIGHT: 4 FT 10 IN; 3 KW A/N: 445616	D309				B27.1, B59.21, D322.2, H23.7, H339.1
DEGREASER, VAPOR, BARON-BLAKESLEE, MODEL 37-14-21-VLE, WITH CONDENSER, WIDTH: 1 FT 6 IN; LENGTH: 3 FT 5 IN; HEIGHT: 4 FT 10 IN; 3 KW A/N: 412385	D312				B27.1, B59.21, D322.2, H23.7, H339.1
DEGREASER, HEATED, BARON-BLAKESLEE, CFC-113, MODEL MLR-120LE, WITH A REFRIGERATED PRIMARY CONDENSER AND FREEBOARD CHILLER, WITH CONDENSER, WIDTH: 1 FT ; HEIGHT: 3 FT 9 IN; LENGTH: 1 FT 8 IN A/N: 412390	D313				B27.5, B59.1, D322.2, H23.7, H339.1, K48.7

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 4: DEGREASERS					P13.2
DEGREASER, AIRLESS, CLEANING CHAMBER: WIDTH:2FT 9IN; DEPTH: 1FT 6IN; HEIGHT: 3FT; ULTRASONIC 18-KW, TIYODA-SERAC, MODEL YEV-9240KZ, WITH A CHILL WATER EXTERNAL COOLING SYSTEM, WIDTH: 5 FT 11 IN; HEIGHT: 7 FT 7 IN; LENGTH: 8 FT WITH A/N: 445015 CARBON ADSORBER, US FILTER, MODEL VSC200, DIA: 2FT 1IN; HEIGHT: 2FT 11IN, 200 LBS ACTIVATED CARBON	D577				B59.55, B59.56, E149.4, H23.3
DEGREASER, AIRLESS, CLEANING CHAMBER: WIDTH:2FT 9IN; DEPTH: 1FT 6IN; HEIGHT: 3FT; ULTRASONIC 18-KW, TIYODA-SERAC, MODEL YEV-9240KZ, WITH A CHILL WATER EXTERNAL COOLING SYSTEM, WIDTH: 5 FT 11 IN; HEIGHT: 7 FT 7 IN; LENGTH: 8 FT WITH A/N: 445016 CARBON ADSORBER, US FILTER, MODEL VSC200, DIA: 2FT 1IN; HEIGHT: 2FT 11IN, 200 LBS ACTIVATED CARBON	D579				B59.55, B59.56, E149.4, H23.3
Process 5: ROCKET THRUSTER TEST FACILITY					

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

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 5: ROCKET THRUSTER TEST FACILITY					
TEST CELL, ENGINE, ROCKET THRUSTER A/N: 412403	D198	C13 C162		**PM**: (9) [**RULE 404, 2-7-1986**]	B59.3, C1.4, C1.14, D323.1
Process 6: SPRAY BOOTHS					
SPRAY COATING OPERATION, BINKS, WITH SPRAY BOOTH A/N: 412381	C151			**PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: (9) [**RULE 1107, 11-9-2001;** *RULE 1107, 1-6-2006;* **RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C6.1, D322.1, E175.1, H23.4, K67.1
Process 7: STORAGE TANKS					
STORAGE TANK, TANK NO. P-167, 3000 GALS A/N: 412463	D148				C1.28, E71.2
STORAGE TANK, TANK NO. P-166, 3000 GALS A/N: 412464	D149				C1.28, E71.2
STORAGE TANK, TANK NO. P-165, WITH A PRESSURE RELIEF VALVE, WASTE SOLVENT (ISOPROPYL ALCOHOL, METHANOL, ACETONE), 2000 GALS A/N: 475713	D150				C1.54, E193.2
STORAGE TANK, ACIDS, AMMONIA, 7 FT DIA. X 7 FT H., 2000 GALS A/N: 412371	D459				C1.27
Process 8: DSV LAB					P13.1
System 1: Photolithographic Processes					

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 8: DSV LAB					P13.1
BENCH, PHOTORESIST COATER, HEADWAY, 2FT W. X 3 FT L. X 3 FT 3 IN H., WITH ONE SPINNER A/N: 432970	D303	C305			
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, TECHNIC ETCHER, MODEL PE II-A, HEIGHT: 6FT 6IN; LENGTH: 3FT 5IN; WIDTH: 3FT 5IN, 65-KVA A/N: INACTIVE	D427	C6			B59.12
PLASMA ETCHER, TECHNIX ETCHER, MODEL PE II-A, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 6IN; 65-KVA A/N: INACTIVE	D505	C6			B59.39
System 3: Wet Chemical Processing					
BENCH, ACID SINK, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 422664	D420	C6			B59.41
System 4: Solvent Cleaning					
BENCH, SOLVENT, WET BENCH, DEXON, 4 FT W. X 4 FT L. X 5 FT H., TAIL END LAB, 2 KW ELECTRICALLY HEATED A/N: 441113	D289	C455			B59.25, C1.45, C1.52
BENCH, SOLVENT, DEXON MFG, 4 FT W. X 6 FT L. X 5 FT H., WITH FOUR SOLVENT SINKS, ONE DI RINSE SINK AND ONE WASTE SOLVENT SINK A/N: 441113	D304	C305			B59.18, E128.1, E129.1

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

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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
Process 8: DSV LAB					P13.1
DRYER, IPA, AIO MICROSERVICE, MODEL NO. SF-600, 2FT 6IN W X 3FT 6IN L X 6FT 1IN H A/N: 441113	D549	C305			B59.25, C1.45, C1.52
Process 9: BPL LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST COATER NO. 1 A/N:	D411	C455			B59.14, C1.24
BENCH, PHOTORESIST COATER NO. 2 A/N:	D412	C455			B59.14, C1.24
BENCH, TRACK DEVELOP/STRIP STATIONS #1 & 2, HEIGHT: 5FT 10IN; LENGTH: 5FT; WIDTH: 3FT 10IN A/N:	D438	C6			B59.20
OVEN, NO. 1, LABLINE, MODEL 3490M A/N:	D413	C455			B59.14, C1.24
OVEN, NO. 2, LABLINE, MODEL 3490M A/N:	D414	C455			B59.14, C1.24
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D428	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D429	C6			B59.38

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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Process 9: BPL LAB					P13.1
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D430	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D431	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D432	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N:	D433	C6			B59.38
PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N:	D434	C6			B59.12
PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N:	D435	C6			B59.12
PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D501	C6			B59.38

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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Process 9: BPL LAB					P13.1
PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D502	C6			B59.38
PLASMA ETCHER, CLEANER, TWO CHAMBER, TECHNIX, MODEL 800-II, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 5IN; WITH 3 VACUUM PUMPS, 2.0-HP TOTAL A/N:	D503	C6			B59.38
STORAGE CABINET, RULE 219 EXEMPT A/N: INACTIVE	D415	C455			B59.14
System 3: Wet Chemical Processing					
BENCH, ETCHING STATION WITH FOUR SINKS, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH: 7FT 10IN A/N: 502643	D440	C6			B59.68
BENCH, POLISHING STATION, WITH FOUR SINKS, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 502643	D441	C6			B59.68, C1.29
BENCH, WET PROCESS STATION, WITH TWO SINKS, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 502643	D442	C6			B59.68

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 9: BPL LAB					P13.1
BENCH, PLATING STATIONS #1 & 2, WITH A 10 VOLT, 3 AMPERE RECTIFIER, HEIGHT: 5FT 10IN; LENGTH: 8FT; WIDTH: 7FT 10IN A/N: 502643	D439	C6			B59.64, E71.3
System 4: Solvent Cleaning					
BENCH, SOLVENT, SOLID STATE EQUIP CORP, MODEL M202, 2 FT 9 IN W. X 4 FT 6 IN L. X 6 FT 5 IN H., ELECTRICALLY HEATED A/N: 451514	D338	C455			B27.5, C1.19, H23.2
BENCH, SOLVENT CLEANING STATION NO. 1, WAFER PROCESS SYSTEMS,, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N: 451514	D416	C455			B59.15, C1.26
BENCH, SOLVENT CLEANING WET BENCH, WAFER PROCESS SYSTEMS, 3 FT W. X 8 FT L. X 6 FT 8 IN H. A/N: 451514	D417	C455			B59.15, C1.26
DRYER, IPA, FSI INTERNATIONAL, 2FT 6IN W X 3FT 6IN L X 6FT 1IN H A/N: 451514	D550	C455			C1.26
Process 10: D1 EAST LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N:	D76	C305			

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N:	D77	C305			
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N:	D78	C305			
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.4, 3 FT W. X 5 FT L. X 3 FT H., ELECTRICALLY HEATED A/N:	D154	C455			
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.3, MODEL NO. SSTC 621270, 18 KVA ELECTRICALLY HEATED, 6 FT 2 IN W. X 3 FT L. X 5 FT 10 IN H, WITH ONE SPINNER A/N:	D274	C305			
BENCH, PHOTORESIST COATER/DEVELOPER, NO.1, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N:	D299	C305			
BENCH, PHOTORESIST COATER/DEVELOPER, NO.2, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N:	D300	C161			B59.4

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.7, MODEL NO. EQP222SR, 16.2 KVA ELECTRICALLY HEATED, 4 FT 6 IN W. X 4 FT L. X 5 FT 6 IN H. A/N:	D333	C305			B27.4, C1.15
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO. 8, MODEL NO. SSTC401270, 3 FT 3 IN W X 5 FT 5 IN L X 5 FT 7 IN H., 7.2 KW ELECTRICALLY HEATED A/N:	D335	C455			B27.4, C1.17
BENCH, PHOTORESIST COATER/DEVELOPER, NO.4, MODEL SCORPIO 839, 4 FT 4 IN W. X 4 FT 3 IN L. X 5 FT 11 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N:	D337	C305			B27.5, C1.18, H23.2
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.6, MODEL NO. EQ22PR, 9.36 KVA ELECTRICALLY HEATED, 4 FT W. X 4 FT 8 IN L. X 5 FT 5 IN H. A/N:	D520	C161			B59.4, B59.43
BENCH, PHOTORESIST DEVELOPER TRACK, SILICON VALLEY GROUP, MODEL NO. SVG-8632 CTD, 5 FT L. X 3 FT W X 2 FT 8 IN H. A/N:	D521	C161			B59.4, B59.43
OVEN, PHOTORESIST BAKE, LABLINE MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N:	D79	C455			

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

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N:	D80	C455			
OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N:	D81	C455			
OVEN, TRW NO. 1, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N:	D276	C455			
OVEN, TRW NO. 2, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N:	D277	C455			
OVEN, TRW NO. 3, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N:	D278	C455			
OVEN, TRW NO. 7, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N:	D279	C455			
OVEN, VAPOR PRIME, YEILD ENGINEERING, MODEL NO. YES-6, 1 FT 9 IN W. X 2 FT 11 IN L. X 1 FT 9 IN H., ELECTRICALLY HEATED A/N:	D82	C305			
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N:	D571	C305			B59.53, C1.51

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N:	D572	C305			B59.53, C1.51
OVEN, VAPOR PRIME, YIELD ENGINEERING SERVICES, MODEL NO. 310TA A/N:	D573	C6			B59.53
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, PLASMATHERM WAFER BATCH 730 A/N: 441119	D96	C161			
PLASMA ETCHER, DEPOSITION/ETCHER, PLASMATHERM, MODEL DUAL 790 A/N: 441119	D97	C161			
PLASMA ETCHER, PLASMA THERM, MODEL NO. SL720 A/N: 441119	D113				
DEPOSITION REACTOR, CHEMICAL VAPOR DEPOSITION, LOCATED IN BUILDING D1 GAAS PILOT LINE, PECVD TYPE, ELECTROTECH, MODEL DELTA 201, WITH THREE VACUUM PUIMPS A/N: 441119	D306	C161			C1.6, K48.4
PLASMA ETCHER, PLASMATHERM, BACKSIDE VIA ETCH A/N: 441119	D510	C161			B59.40

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
PLASMA ETCHER, MATRIX #6, ,MATRIX SYSTEM ONE STRIPPER, MODEL NO. 106 A/N: 441119	D511	C161			B59.40
PLASMA ETCHER, NITRIDE ETCH, VLR II, UNAXIS/PLASMATHERM, MODEL NO. VLR700 A/N: 441119	D512	C161			B59.40
PLASMA ETCHER, UNAXIS/PLASMATHERM, MODEL NO. VLR700 A/N: 441119	D513	C161			B59.40
PLASMA ETCHER, NO. 7, MATRIX SYSTEM ONE STRIPPER, MODEL NO. E2053 A/N: 441119	D514	C161			B59.40
PLASMA ETCHER, NO. 14, MATRIX SYSTEM ONE STRIPPER, MODEL NO. 105E A/N: 441119	D516	C161			B59.40
PLASMA ETCHER, NITRIDE ETCH, TEGAL, MODEL NO. 901E A/N: 441119	D517	C161			B59.40
PLASMA ETCHER, NO. 3, PLASMA THERM, MODEL NO. SLR SERIES, TWO VACUUM PUMPS A/N: 441119	D522	C161			B59.44, C1.36
BENCH, PLASMA DESCUMMER NO.1, TECHNICS, MODEL NO. PE II/IIA, 2 FT 8 IN L X 2 FT 6 IN W, X 2 FT H, 2.2 KVA, AND 0.8 H.P. VACUUM SYSTEM A/N: 441119	D523	C161			B59.4, B59.43

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
BENCH, PLASMA DESCUMMER NO. 2,TECHNICS, MODEL NO. PE II/IIA, 2 FT 8 IN L X 2 FT 6 IN W, X 2 FT H, 2.2 KVA AND 0.8 H.P. VACUUM SYSTEM A/N: 441119	D524	C161			B59.4, B59.43
FURNACE, ELECTRIC, MRL INDUSTRIES, MODEL THERMTEC, 80 KW A/N: 441119	D94	C161			
ION IMPLANTER, VARIAN, MODEL EHP 500, HEIGHT: 8FT; LENGTH: 16FT; WIDTH: 10FT 6IN A/N: 441119	D425	C6			B59.12
PLASMA ETCHER, PLASMA THERM, MODEL 790, HEIGHT: 6FT 6IN; LENGTH: 3FT 5IN; WIDTH: 3FT 5IN, 65-KVA A/N: 441119	D426				
DEPOSITION REACTOR A/N: 441119	D462				
System 3: Wet Chemical Processing					
BENCH, ACID / SOLVENT, ACID / CAUSTIC, DEXON, MODEL NO. AG0129A A/N: 445612	D98	C161			
BENCH, ACID / SOLVENT, DEXON, MODEL NO. AG0127 A/N: 445612	D99	C161			
BENCH, ACID / SOLVENT, DEXON, MODEL NO. AG0084 A/N: 445612	D100	C161			

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

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
BENCH, DEXON, MODEL NO. AG0130 A/N: 445612	D101	C161			
BENCH, ACID WET, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-5-FA-PVC-C, 5FT 5IN L X 4FT 11IN W X 5FT 10IN H A/N: 445612	D475	C161			B59.26
BENCH, TI/AU ETCH, WAFER PROCESS SYSTEMS, MODEL NO. SQFFH-800-POLY A/N: 445612	D515	C161			B59.40
BENCH, ACID SINK, WAFER PROCESS SYSTEMS, MODEL NO. SLFFH-400-POLY, 4FT A/N: 445612	D518	C161			B59.40
BENCH, ACID SINK, WALL MOUNTED UNIT, 6FT A/N: 445612	D519	C161			B59.40
BENCH, TRACK DEVELOPER, C & D SEMICONDUCTOR SERVICES, MODEL NO. 8800 SERIES, 4 FT 10 IN, L X 4 FT W X 3 FT 8 IN H A/N: 445612	D525	C6			B59.4, B59.43
System 4: Solvent Cleaning					
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N:	D474	C455			B59.47, C1.44

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 10: D1 EAST LAB					P13.1
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N:	D476	C455			B59.47, C1.44
BENCH, PHOTORESIST DEVELOPER, CHLOROBENZENE SINK, WAFER PROCESS SYSTEMS, MODEL NO. WPS-, 400-FA-SS, 3 FT 4 IN W. X 3 FT 10 IN L. X 6 FT 4 IN H., HEATED 5.4 KVA A/N:	D498	C305			B59.34, C1.47
Process 11: D1 WEST LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST COATER/DEVELOPER, NO.3, MODEL SCORPIO 841, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND ONE BAKING OVEN A/N:	D301	C460			
BENCH, PHOTORESIST COATER NO. 1, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N:	D346	C364			B59.50, C1.42
BENCH, PHOTORESIST COATER NO. 2, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N:	D347	C364			B59.50, C1.42

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 11: D1 WEST LAB					P13.1
BENCH, TRACK DEVELOP STATION NO. 1, POTASSIUM HYDROXIDE A/N:	D397	C232			B59.9
BENCH, TRACK DEVELOP STATION NO. 2, POTASSIUM HYDROXIDE A/N:	D398	C232			B59.9
BENCH, DEVELOPER, C&D SEMICONDUCTOR, MODEL 8800, WIDTH: 3FT 11IN, HEIGHT: 5FT 10IN, LENGTH:4FT 11IN A/N:	D477	C232			B59.4, B59.36
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800, WIDTH: 2 FT 11 IN, LENGTH: 8 FT, HEIGHT:3 FT 11 IN A/N:	D481	C460			B59.49, C1.37, C1.42
OVEN, VAPOR PRIME, LENGTH:21.625 IN; WIDTH: 24.25 IN; HEIGHT: 35 IN;, ELECTRICALLY HEATED, 2.2 KVA A/N:	D349	C232			B59.52, C1.46
OVEN, NO. 1, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N:	D350	C364			B59.5, C1.42
OVEN, NO. 3, PHOTORESIST BAKE, 21.6 IN L. 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N:	D352	C364			B59.5, C1.42
OVEN, NO. 4, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N:	D353	C364			B59.5, C1.42

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

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 11: D1 WEST LAB					P13.1
OVEN, NO. 5, PHOTORESIST BAKE, 21.6 IN L. X 24.25 W. X 35 IN H., ELECTRICALLY HEATED A/N:	D354	C364			B59.5, C1.42
OVEN, NO. 6, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N:	D355	C364			B59.5, C1.42
OVEN, NO. 1, VAPOR PRIME, 19.5 IN L. X 23.75 IN W. X 27.5 IN H., 2.2 KVA ELECTRICALLY HEATED, 2.2 KVA A/N:	D348	C233			B59.4, B59.57, C1.42
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, ETCH NO. 1, 65-KVA A/N:	D374	C160			B59.8
PLASMA ETCHER, ETCH NO. 2, 65-KVA A/N:	D375	C160			B59.8
PLASMA ETCHER, CLEAN NO. 1, MATRIX, 6.0-KVA A/N:	D378	C160			B59.8
PLASMA ETCHER, CLEAN NO. 5, MATRIX, 6.0-KVA A/N:	D382	C160			B59.8
PLASMA ETCHER, CLEAN NO. 6, MATRIX, 6.0-KVA A/N:	D383	C232			B59.8
PLASMA ETCHER, CLEAN NO. 9, MATRIX, 6.0-KVA A/N:	D386	C160			B59.8

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(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 11: D1 WEST LAB					P13.1
PLASMA ETCHER, CLEAN NO. 11, MATRIX, 6.0-KVA A/N:	D388	C160			B59.8
PLASMA ETCHER, DEPOSITION NO. 1, PLASMA THERM INC. 65-KVA A/N:	D390	C160			B59.8
PLASMA ETCHER, DEPOSITION NO. 2, PLASMA THERM INC. 65-KVA A/N:	D391	C160			B59.8
PLASMA ETCHER, CLEAN NO. 1, MATRIX, 21.4-KVA A/N:	D403	C160			B59.52
PLASMA ETCHER, CLEAN NO. 2, MATRIX, 21.4-KVA A/N:	D404	C160			B59.52
PLASMA ETCHER, CLEAN NO. 4, MATRIX, 21.4-KVA A/N:	D406	C232			B59.52
PLASMA ETCHER, MATRIX, MODEL EHP500,, WIDTH:4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N:	D450	C233			B59.13
PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D507	C232			B59.52

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 11: D1 WEST LAB					P13.1
PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D508	C232			B59.52
PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D509	C232			B59.52
PLASMA ETCHER, DESCUMMER, BRANSON/IPC, MODEL REACTOR CENTER PM 1813, DIMENSIONS: HEIGHT: 3FT; LENGTH: 3FT; WIDTH: 3FT A/N:	D528	C160			B27.7
FURNACE, PHOTORESIST COATER/DEVELOPER, THERMCO A/N:	D183	C160			
ION IMPLANTER, ION BEAM MILL VACUUM PUMP A/N:	D182	C233			
EVAPORATOR, CHA MK50 A/N:	D191				
DEPOSITION REACTOR, SPUTTERING NO. 1, 21.4-KVA A/N:	D407	C232			B59.52
PROCESS TANK, PASS-THRU ACID UNIT A/N:	D189	C160			

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
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FACILITY PERMIT TO OPERATE
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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
Process 11: D1 WEST LAB					P13.1
DEPOSITION REACTOR, VAPOR PRIME, Y.E.S., LENGTH: 19.5IN; WIDTH: 23.75IN; HEIGHT: 27.5IN;, ELECTRICALLY HEATED A/N:	D552	C232			B59.52, C1.46
PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N:	D584	C232			B59.58
PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N:	D540	C529			B59.4, B59.45
System 3: Wet Chemical Processing					
BENCH, WET CHEMICAL A/N: 445571	D210	C233			
BENCH, WET CHEMICAL A/N: 445571	D211	C160			
BENCH, WET PROCESS STATION NO. 1, HYDROCHLORIC ACID A/N: 445571	D371	C160			B59.11
BENCH, WET PROCESS STATION NO. 2, HYDROCHLORIC ACID A/N: 445571	D372	C232			B59.11
BENCH, WET PROCESS STATION, ACID BENCH NO. 1, HF/PHOSPHORIC/PEROXIDE A/N: 445571	D373	C160			B59.11
BENCH, WET PROCESS STATION NO. 1, HYDROCHLORIC ACID A/N: 445571	D394	C160			B59.41

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

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 11: D1 WEST LAB					P13.1
BENCH, WET PROCESS STATION NO. 2, HYDROCHLORIC ACID A/N: 445571	D395	C160			B59.41
BENCH, ACID ETCH, WIDTH:1FT 8IN, LENGTH: 3FT 4IN, HEIGHT: 5FT; A/N: 445571	D447	C232			B59.4, B59.36
BENCH, WET PROCESS STATION, WAFER PROCESS SYSTEMS, MODEL SLFFH-400-FA-PVC-C, HYDROCHLORIC ACID/AMMONIUM HYDROXIDE/PEROXIDE A/N: 445571	D478	C160			B59.4, B59.11
BENCH, , GOLD PLATING, WAFER PROCESS SYSTEMS,MODEL NO. SLFFH-800-PVC-C, WIDTH: 8FT;, HEIGHT: 6FT; LENGTH: 4FT: A/N: 445571	D551	C233			B59.4, B59.39
BENCH, ACID WET STATION, WAFER PROCESS SYSTEMS, MODEL SLFFH-500-FA-PVC-C A/N: 445571	D574	C160			B59.54
System 4: Solvent Cleaning					
BENCH, , SOLVENT CLEANING STATION, DEXON, 2 KVA ELECTRICALLY HEATED, 2 FT 6 IN W. X 6 FT L. X 3 FT H. A/N:	D157	C460			B59.16, E54.1, K48.5
BENCH, SOLVENT CLEANING STATION, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N:	D357	C364			B59.19, C1.41

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(3) Denotes RECLAIM concentration limit
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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Process 11: D1 WEST LAB					P13.1
BENCH, SOLVENT CLEANING STATION, 3 FT W. X 5 FT L. X 6 FT 8 IN H. A/N:	D358	C364			B59.47, C1.41
BENCH, SOLVENT CLEANING STATION, 3 FT W. X 4 FT L. X 6 FT 8 IN H. A/N:	D359	C364			B59.19, C1.41
BENCH, SOLVENT CLEANING STATION, 3 FT W. X 6 FT L. X 6 FT 8 IN H. A/N:	D361	C364			B59.47, C1.41
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEMS, 2-KVA ELECTRICALLY HEATED A/N:	D482	C332			B59.51, C1.43
Process 12: PHOTONICS LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST STRIPPER, SOLITECH A/N: 412416	D173	C455			B59.33, C1.33
BENCH, PHOTORESIST STRIPPER, SOLITECH A/N: 412416	D174	C455			B59.33, C1.33
BENCH, PHOTORESIST DEVELOPER, PHOTORESIST STRIPPER, WET SINK A/N: 412416	D178	C455			B59.33, C1.33
System 2: Integrated circuit Fabrication					
DEPOSITION REACTOR, PLASMA ENHANCED A/N: 412441	D64	C159			

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(6) Denotes air toxic control rule limit
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 12: PHOTONICS LAB					P13.1
PLASMA ETCHER, REACTIVE ION TYPE A/N: 412441	D68	C159			
DEPOSITION REACTOR, MOCVD #3, THOMAS SWAN, MODEL EPITOR III-V, WITH HIGH EFFICIENCY PARTICULATE AIR FILTER A/N: 412437	D307	C308			C1.25, E133.1
CARBON ADSORBER, TWO PARALLEL BEDS, EACH 40 LBS CARBON A/N: 412466	C308	C159 D307			C6.4, D12.1, E128.2, E133.1, E224.1, K48.1
DEPOSITION REACTOR, SPUTTERING, NO. 1 A/N: 412441	D62	C159			
DEPOSITION REACTOR, SPUTTERING, NO. 2 A/N: 412441	D63	C159			
EVAPORATOR, ELECTRONIC BEAM A/N: 412441	D71	C159			
DEPOSITION REACTOR, E-BEAM DEPOSITIONER A/N: 412441	D463	C159			B27.3
EVAPORATOR, ELECTRONIC BEAM A/N: 412441	D70	C159			
BENCH, POLISHING DECK ETCHER A/N: 412441	D73	C159			
System 3: Wet Chemical Processing					
BENCH, ACID / CAUSTIC A/N: 412372	D55	C159			
BENCH, ACID / CAUSTIC A/N: 412372	D56	C159			

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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 12: PHOTONICS LAB					P13.1
BENCH, ACID / CAUSTIC A/N: 412372	D57	C159			
BENCH, ACID / CAUSTIC A/N: 412372	D59	C159			
PROCESS TANK, PICKLING, ACID SINK A/N: 412372	D179	C159			B59.33, C1.33
BENCH, ACID / CAUSTIC A/N: 412372	D461	C159			
Process 13: 3D LAB					P13.1
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, DESCUMMER NO. 1, PLASMATEK LABS, MODEL P2075, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 445614	D538	C529			B59.4, B59.45
PLASMA ETCHER, DESCUMMER NO. 2, PLASMATEK LABS, MODEL P2075, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 445614	D539	C160			B59.4, B59.45
PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N:	D540	C529			B59.4, B59.45
PLASMA ETCHER, NO. 2, TECHNIC, MODEL PLANAR ETCH II, WIDTH: 3FT 5IN; LENGTH: 3FT 5IN; HEIGHT: 6FT A/N: 445614	D541	C529			B59.4, B59.45

* (1) (1A) (1B) Denotes RECLAIM emission factor
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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 13: 3D LAB					P13.1
FURNACE, NO. 1, DIFFUSION, MINI BRUTE A/N: 445614	D530	C529			B59.4, B59.45
FURNACE, NO. 1, DIFFUSION, MINI BRUTE A/N: 445614	D531	C529			B59.4, B59.45
EVAPORATOR, NO. 2, METAL DEPOSITION A/N: 445614	D532	C529			B59.4, B59.45
EVAPORATOR, NO. 3, METAL DEPOSITION A/N: 445614	D533	C529			B59.4, B59.45
EVAPORATOR, NO. 4, METAL DEPOSITION A/N: 445614	D534	C529			B59.4, B59.45
EVAPORATOR, NO. 5, METAL DEPOSITION A/N: 445614	D535	C529			B59.4, B59.45
DEPOSITION REACTOR, SPUTTERING, SILICON OXIDE, CHROMIUM A/N: 445614	D536	C529			B59.4, B59.45
System 3: Wet Chemical Processing					
BENCH, WET STATION, DEVELOPER, 6FT, UNHEATED A/N: 414505	D542	C529			B59.4, B59.26
BENCH, WET STATION, HEMT, NO. 1, 6FT, UNHEATED A/N: 414505	D543	C529			B59.4, B59.26
BENCH, WET STATION, HEMT, NO. 2, 6FT, UNHEATED A/N: 414505	D544	C529			B59.4, B59.26

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(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 13: 3D LAB					P13.1
BENCH, WET STATION, HBT, NO. 1, 6FT, UNHEATED A/N: 414505	D545	C529			B59.4, B59.26
BENCH, WET STATION, DEVELOPER, 4FT, UNHEATED A/N: 414505	D547	C529			B59.4, B59.26
Process 14: SURFACE PREPARATION					
System 1: Etching Line					
PROCESS TANK, ETCHING, UNHEATED, NO. TANTAL, WIDTH: 4 IN; HEIGHT: 4 IN; LENGTH: 4 IN A/N: 412396	D38	C4			
BENCH, WET STATION, HBT, NO. 2, 6FT, UNHEATED A/N:	D546	C529			B59.4, B59.26
System 2: Plating					S13.1
TANK, NICKEL STRIKE, NICKEL CHOLRIDE, HYDROCHLORIC ACID, HEATED MECHANICALLY MIXED, 80 DEGREES F MAX, 30 AMPERE RECTIFIER A/N: 463173	D590	C4			
TANK, NICKEL PLATING, NICKEL SULFUMATE, NICKEL BROMIDE, HEATED MECHANICALLY MIXED, 90 DEGREES F MAX, 30 AMPERE RECTIFIER A/N: 463173	D591	C4			
TANK, GOLD PLATING, LENGTH: 22IN; WIDTH:14IN; DEPTH:26IN A/N: 463173	D592	C4			
Process 15: MISCELLANEOUS EQUIPMENT					

* (1) (1A) (1B) Denotes RECLAIM emission factor
(2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit
(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
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(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 15: MISCELLANEOUS EQUIPMENT					
SOLDER MACHINE, CENTECH, MODEL NO. VP-2000, ELECTRICALLY HEATED, 30 KW A/N: 412374	D111	C10			B27.6, B59.4, H23.8
PLASMA ETCHER, LASER EXCIMER A/N: 412401	D120	C16			H23.8
PROCESS TANK, UNHEATED, TRW CUSTOM, WET STATION/FUME HOOD, WIDTH: 3 FT ; HEIGHT: 6 FT ; LENGTH: 10 FT A/N: 412427	D243	C233			B59.2, C1.48, H23.8
PROCESS TANK, HEATED, SANTA CLARA, WET STATION, WIDTH: 3 FT ; LENGTH: 8 FT ; HEIGHT: 5 FT ; 10.6 KW A/N: 412427	D244	C233			B59.2, C1.48, H23.8
PROCESS TANK, HEATED, SANTA CLARA, WET STATION, WIDTH: 3 FT ; LENGTH: 8 FT ; HEIGHT: 5 FT ; 10.6 KW A/N: 412427	D245	C233			B59.2, C1.48, H23.8
BENCH, PHOTORESIST DEVELOPER, SEM UNIT HITACHI A/N: 412428	D255	C233			B59.2, C1.48, H23.8
PLASMA ETCHER, MATRIX, MODEL EHP500,, WIDTH:4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N: 412353	D451	C233			B59.13, H23.8
BENCH, PARTS CLEANING, PURE AIRE CORP., HEATED A/N: INACTIVE	D466				B59.31, B59.32, C1.31, H23.8

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(4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit
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(7) Denotes NSR applicability limit
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NORTHROP GRUMMAN SYSTEMS

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Process 15: MISCELLANEOUS EQUIPMENT					
PLASMA ETCHER, DESCUMMER NO. 1, MARCH INSTRUMENTS, MODEL PX250, CHAMBER DIMENSIONS: HEIGHT: 1FT 5IN; LENGTH: 2FT; WIDTH: 2FT; 2.2 KVA A/N: 424525	D526				B27.7, H23.8
PLASMA ETCHER, DESCUMMER NO. 2, MARCH INSTRUMENTS, MODEL PX250, CHAMBER DIMENSIONS: HEIGHT: 1FT 5IN; LENGTH: 2FT; WIDTH: 2FT; 2.2 KVA A/N: 424525	D527				B27.7, H23.8
CARBON FILTER, PROTABLE FUME HOOD, MISONIX, MODEL AU-250E, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438111	C554			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250E, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438113	C555			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN FILTER AND ONE SAFETY CARBON FILTER A/N: 438114	C556			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7

* (1) (1A) (1B) Denotes RECLAIM emission factor
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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 15: MISCELLANEOUS EQUIPMENT					
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438116	C557			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, HEPA WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438117	C558			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438118	C559			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250EH, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 438119	C560			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, HEPA WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 445588	C561			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7

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(5) (5A) (5B) Denotes command and control emission limit
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(7) Denotes NSR applicability limit
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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
Process 15: MISCELLANEOUS EQUIPMENT					
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438122	C563			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438123	C564			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438124	C565			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438125	C566			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, HEPA WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 445589	C567			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7

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(5) (5A) (5B) Denotes command and control emission limit
(6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits
(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
NORTHROP GRUMMAN SYSTEMS

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
Process 15: MISCELLANEOUS EQUIPMENT					
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438127	C568			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438128	C569			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-750EH, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 438129	C570			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.50, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-250E, WITH ONE PRE-FILTER, ONE MAIN CARBON FILTER AND ONE SAFETY CARBON FILTER A/N: 445617	C575			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
FUME HOOD, RULE 219 EXEMPT, HEPA, PLYMOVENT, MODEL MF3000, WITH A 3.0-HP EXHAUST BLOWER A/N: 419012	C548				C6.5, E175.2

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

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
Process 15: MISCELLANEOUS EQUIPMENT					
FUME HOOD, RULE 219 EXEMPT, PORTABLE, HORIZONTAL TYPE, TERRA UNIVERSAL, MODEL 1682-94A, WITH FOUR HEPA FILTER PACKS A/N: 428608	C581				B59.4, C6.5, E175.2
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 429562	C582			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
CARBON FILTER, PORTABLE FUME HOOD, MISONIX, MODEL AU-550E, WITH TWO PRE-FILTERS, TWO MAIN CARBON FILTERS AND TWO SAFETY CARBON FILTERS A/N: 429563	C583			**VOC**: (9) [**RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	C1.49, D12.2, H23.7
SOLDER MACHINE, ELECTRICALLY HEATED, 30 KW A/N: 484855	D598				B59.67, C1.57
Process 16: RULE 219 EXEMPT EQUIP/PROCESSES W/ SPECIFIC-RULE REQUIREMENTS					
RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS,	E294				H23.1
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E295			**VOC**: (9) [**RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	H23.3

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

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
Process 16: RULE 219 EXEMPT EQUIP/PROCESSES W/ SPECIFIC-RULE REQUIREMENTS					
RULE 219 EXEMPT EQUIPMENT, SPRAY COATING ENCLOSURES, < 8 FT3 INTERNAL VOLUME	E296			**PM**: (9) [**RULE 404, 2-7-1986**]; **VOC**: (9) [**RULE 1107, 11-9-2001;** *RULE 1107, 1-6-2006;* **RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	H23.2
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E297			**VOC**: (9) [**RULE 1113, 11-8-1996;** *RULE 1113, 6-9-2006;* **RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	K67.2
RULE 219 EXEMPT EQUIPMENT, DEGREASERS, HEATED, < 1.0 FT2	E298			**VOC**: (9) [**RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	D322.2, H23.3, H339.1
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E310			**VOC**: (9) [**RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	H23.2
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E456			**VOC**: (9) [**RULE 1171, 11-7-2003;** *RULE 1171, 7-14-2006*]	
RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, <= 53 FT3, WITH DUST FILTER	E586			**PM**: (9) [**RULE 1140, 2-1-1980;** *RULE 1140, 8-2-1985;* **RULE 404, 2-7-1986; RULE 405, 2-7-1986**]	D322.3, D381.1, E102.1, K67.5
Process 17: MISC. RULE 219 EXEMPT EQUIP/PROCESSES					
STORAGE CABINET, RULE 219 EXEMPT, NO. 1	E488	C13			
STORAGE CABINET, RULE 219 EXEMPT, NO. 2	E489	C13			
STORAGE CABINET, RULE 219 EXEMPT, NO. 3	E490	C13			
STORAGE CABINET, RULE 219 EXEMPT, NO. 4	E491	C13			

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

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
Process 17: MISC. RULE 219 EXEMPT EQUIP/PROCESSES					
LASER TEST STAND, R & D OXYGEN IODINE CHEMICAL LASER	E492	C13			
HOLDING SECTION, FLEXI-GLASS ROOM, EMERGENCY HYDEOGEN PEROXIDE VENTILATION	E493	C13			
STORAGE CABINET, RULE 219 EXEMPT, HYDRAZINE	E494	C13			
CUTTER, WAFER DICER, HEIGHT: 5FT; LENGTH: 3FT 4IN; WIDTH 1FT 8IN	E419	C6			
STORAGE CABINET, RULE 219 EXEMPT, HEIGHT: 3FT 9IN; LENGTH: 3FT 9IN; WIDTH: 1FT 8IN	E421	C6			
STORAGE CABINET, RULE 219 EXEMPT, HEIGHT: 3FT 9IN; LENGTH: 3FT 9IN; WIDTH: 1FT 8IN	E422	C6			
BENCH, LAPPING, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH 6FT	E423	C6			
BENCH, POLISHING, HEIGHT: 5FT 10IN; LENGTH: 6FT; WIDTH 6FT	E424	C6			
CUTTER, WAFER, HEIGHT: 5FT, LENGTH: 3FT 4IN, WIDTH: 1FT 8IN	E479	C6			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E280	C161			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E281	C161			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E282	C161			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E283	C161			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E284	C161			

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

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
Process 17: MISC. RULE 219 EXEMPT EQUIP/PROCESSES					
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E285	C161			
STORAGE CABINET, RULE 219 EXEMPT, SEMITOOL, MODEL CSC-2	E286	C161			
CUTTER, WAFER DICER, DISCO, MODEL DFD 641, LENGTH: 3FT; WIDTH: 1FT 8IN; HEIGHT: 5FT;	E506	C6			

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

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
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
C2	1	1	0
C4	1	1	0
C6	1	1	0
C10	1	1	0
C13	1	1	0
C14	2	1	0
C15	2	1	0
C16	2	1	0
D19	6	2	0
D21	6	2	0
D22	7	2	0
D24	7	2	0
D27	11	3	0
D30	11	3	0
D31	11	3	0
D32	11	3	0
D38	38	14	1
D55	35	12	3
D56	35	12	3
D57	36	12	3
D59	36	12	3
D62	35	12	2
D63	35	12	2
D64	34	12	2
D68	35	12	2
D70	35	12	2
D71	35	12	2
D73	35	12	2
D76	19	10	1
D77	20	10	1
D78	20	10	1
D79	21	10	1
D80	22	10	1
D81	22	10	1
D82	22	10	1

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D94	25	10	2
D96	23	10	2
D97	23	10	2
D98	25	10	3
D99	25	10	3
D100	25	10	3
D101	26	10	3
D111	39	15	0
D113	23	10	2
D120	39	15	0
D148	14	7	0
D149	14	7	0
D150	14	7	0
C151	14	6	0
D154	20	10	1
D157	33	11	4
C159	2	1	0
C160	2	1	0
C161	3	1	0
C162	3	1	0
D173	34	12	1
D174	34	12	1
D178	34	12	1
D179	36	12	3
D182	31	11	2
D183	31	11	2
D189	31	11	2
D191	31	11	2
D198	14	5	0
D210	32	11	3
D211	32	11	3
C232	3	1	0
C233	3	1	0
D243	39	15	0
D244	39	15	0

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D245	39	15	0
D255	39	15	0
D274	20	10	1
D276	22	10	1
D277	22	10	1
D278	22	10	1
D279	22	10	1
E280	46	17	0
E281	46	17	0
E282	46	17	0
E283	46	17	0
E284	46	17	0
E285	47	17	0
E286	47	17	0
D289	15	8	4
D290	11	4	0
D291	12	4	0
E294	44	16	0
E295	44	16	0
E296	45	16	0
E297	45	16	0
E298	45	16	0
D299	20	10	1
D300	20	10	1
D301	27	11	1
D303	15	8	1
D304	15	8	4
C305	5	1	0
D306	23	10	2
D307	35	12	2
C308	35	12	2
D309	12	4	0
E310	45	16	0
D312	12	4	0
D313	12	4	0

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D314	8	2	0
D321	8	2	0
C332	4	1	0
D333	21	10	1
D335	21	10	1
D337	21	10	1
D338	19	9	4
D346	27	11	1
D347	27	11	1
D348	29	11	1
D349	28	11	1
D350	28	11	1
D352	28	11	1
D353	28	11	1
D354	29	11	1
D355	29	11	1
D357	33	11	4
D358	34	11	4
D359	34	11	4
D361	34	11	4
C364	4	1	0
D365	9	2	0
D371	32	11	3
D372	32	11	3
D373	32	11	3
D374	29	11	2
D375	29	11	2
D378	29	11	2
D382	29	11	2
D383	29	11	2
D386	29	11	2
D388	30	11	2
D390	30	11	2
D391	30	11	2
D394	32	11	3

FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D395	33	11	3
D397	28	11	1
D398	28	11	1
D403	30	11	2
D404	30	11	2
D406	30	11	2
D407	31	11	2
D411	16	9	1
D412	16	9	1
D413	16	9	1
D414	16	9	1
D415	18	9	2
D416	19	9	4
D417	19	9	4
E419	46	17	0
D420	15	8	3
E421	46	17	0
E422	46	17	0
E423	46	17	0
E424	46	17	0
D425	25	10	2
D426	25	10	2
D427	15	8	2
D428	16	9	2
D429	16	9	2
D430	17	9	2
D431	17	9	2
D432	17	9	2
D433	17	9	2
D434	17	9	2
D435	17	9	2
D438	16	9	1
D439	19	9	3
D440	18	9	3
D441	18	9	3

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D442	18	9	3
D447	33	11	3
D450	30	11	2
D451	39	15	0
C455	4	1	0
E456	45	16	0
D457	10	2	0
D459	14	7	0
C460	5	1	0
D461	36	12	3
D462	25	10	2
D463	35	12	2
D466	39	15	0
C467	5	1	0
D474	26	10	4
D475	26	10	3
D476	27	10	4
D477	28	11	1
D478	33	11	3
E479	46	17	0
D481	28	11	1
D482	34	11	4
E488	45	17	0
E489	45	17	0
E490	45	17	0
E491	45	17	0
E492	46	17	0
E493	46	17	0
E494	46	17	0
D498	27	10	4
D501	17	9	2
D502	18	9	2
D503	18	9	2
D505	15	8	2
E506	47	17	0

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D507	30	11	2
D508	31	11	2
D509	31	11	2
D510	23	10	2
D511	24	10	2
D512	24	10	2
D513	24	10	2
D514	24	10	2
D515	26	10	3
D516	24	10	2
D517	24	10	2
D518	26	10	3
D519	26	10	3
D520	21	10	1
D521	21	10	1
D522	24	10	2
D523	24	10	2
D524	25	10	2
D525	26	10	3
D526	40	15	0
D527	40	15	0
D528	31	11	2
C529	5	1	0
D530	37	13	2
D531	37	13	2
D532	37	13	2
D533	37	13	2
D534	37	13	2
D535	37	13	2
D536	37	13	2
D538	36	13	2
D539	36	13	2
D540	32	11	2
D540	36	13	2
D541	36	13	2

FACILITY PERMIT TO OPERATE
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SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
D542	37	13	3
D543	37	13	3
D544	37	13	3
D545	38	13	3
D546	38	14	1
D547	38	13	3
C548	43	15	0
D549	16	8	4
D550	19	9	4
D551	33	11	3
D552	32	11	2
C554	40	15	0
C555	40	15	0
C556	40	15	0
C557	41	15	0
C558	41	15	0
C559	41	15	0
C560	41	15	0
C561	41	15	0
C563	42	15	0
C564	42	15	0
C565	42	15	0
C566	42	15	0
C567	42	15	0
C568	43	15	0
C569	43	15	0
C570	43	15	0
D571	22	10	1
D572	23	10	1
D573	23	10	1
D574	33	11	3
C575	43	15	0
D577	13	4	0
D579	13	4	0
C581	44	15	0

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	**Section D Page No.**	**Process**	**System**
C582	44	15	0
C583	44	15	0
D584	32	11	2
E586	45	16	0
D590	38	14	2
D591	38	14	2
D592	38	14	2
D593	10	2	0
D598	44	15	0

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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 833 LBS IN ANY ONE MONTH

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). 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.

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all equipment and operations that are subject to Rule 442.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 442, 12-15-2000**]

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

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 22 LBS IN ANY ONE MONTH

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). 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.

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all vapor degreasers operating under the Rule 1122 exemption pursuant to Rule 1122(k)(2).

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

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

F2.3 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

To ensure compliance with the 12-month Volatile Hazardous Air Pollutant (VHAP) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VHAP emissions for the month and for the previous 12 month period from all equipment and operations covered by the 12-month emission limit(s). 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.

(3) The operator shall 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.

(4) The operator shall 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, for five years.

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

[**40CFR 63 Subpart BBBBB, 5-22-2003**]

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]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

District Rule 1420

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

[RULE 1420, 9-11-1992]

PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1164
VOC	District Rule	109

[**RULE 109, 5-2-2003; RULE 1164, 1-13-1995**]

[Processes subject to this condition : 8, 9, 10, 11, 12, 13]

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122
VOC	District Rule	109

[**RULE 109, 5-2-2003; RULE 1122, 10-1-2004**]

[Processes subject to this condition : 4]

SYSTEM CONDITIONS

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	District Rule	1426

[RULE 1426, 5-2-2003]

[Systems subject to this condition : Process 14, System 2]

DEVICE CONDITIONS

A. Emission Limits

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

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : C305, C364, C455, C460]

A72.2 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : C455]

A72.3 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

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

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : C305]

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 : D290, D291, D309, D312]

B27.3 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 13-aug-1999.

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D463]

B27.4 The operator shall not use materials containing any carcinogenic compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

For the purposes of this condition, carcinogenic compounds are those in Table I of the above mentioned rule, with an effective date of 07-dec-1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : C2, D333, D335]

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

B27.5 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 12-mar-1999.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 12-mar-1999 or earlier.

[RULE 1401, 3-12-1999]

[Devices subject to this condition : D313, D337, D338]

B27.6 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05/03/2002.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 05/03/2002 or earlier.

[RULE 1401, 5-3-2002]

[Devices subject to this condition : D111]

B27.7 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05-02-2003.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D526, D527, D528]

B59.1 The operator shall not use the following material(s) in this device :

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

carbon tetrachloride

trichloroethylene

chloroform

methylene chloride

1,1,1 trichloroethane

perchloroethylene

The purpose of this condition is to ensure that this equipment is not subject to degreaser NESHAP 40CFR63 SUBPART T requirements

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D290, D291, D313]

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

voc containing materials except for equipment cleaning

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D243, D244, D245, D255]

B59.3 The operator shall only use the following material(s) in this device :

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

Hydrazine

Monomethyl Hydrazine

Ethanol

Jet Fuels (JP-5, JP-8, JP-10, RP-1)

Hydrogen

Propane

Methane

Methanol

Ethylene

Ammonia

Nitrogen Tetroxide

Oxygen

Hydrogen Peroxide

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D198]

B59.4 The operator shall not use the following material(s) in this device :

Materials containing VOC.

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

[Devices subject to this condition : D111, D300, D348, D447, D477, D478, D520, D521, D523, D524, D525, D530, D531, D532, D533, D534, D535, D536, D538, D539, D540, D541, D542, D543, D544, D545, D546, D547, D551, C581]

B59.5 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier except nitric acid and hydrofluoric acid

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D350, D352, D353, D354, D355]

B59.8 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D374, D375, D378, D382, D383, D386, D388, D390, D391]

B59.9 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric acid

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

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D397, D398]

B59.11 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric, hydrofluoric acid, and ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D371, D372, D373, D478]

B59.12 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D425, D427, D434, D435]

B59.13 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 8/18/00 or earlier

[RULE 1401, 8-18-2000]

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

[Devices subject to this condition : D450, D451]

B59.14 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of May 2, 2003 or earlier except methanol, isopropyl alcohol, and chlorobenzene

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D411, D412, D413, D414, D415]

B59.15 The operator shall not use the following material(s) in this device :

toxic air contaminants in table 1 of rule 1401 with a listing date of 8/18/2000 or earlier except isopropyl alcohol, methanol, and trichloroethylene.

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D416, D417]

B59.16 The operator shall not use the following material(s) in this device :

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D157]

B59.18 The operator shall not use the following material(s) in this device :

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

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier except Trichloroethylene.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D304]

B59.19 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table one of rule 1401 with a listing date of 8/13/99 or earlier except isopropyl alcohol, phenol, methanol and naphthalene

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D357, D359]

B59.20 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid, and phosphoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D438]

B59.21 The operator shall not use the following material(s) in this device :

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

methylene chloride

1,1,1 trichloroethane

chloroform

perchloroethylene

trichloroethylene

carbon tetrachloride

HCFC-141b

The purpose of this condition is to ensure that this equipment is not subject to the degreaser NESHAP 40CFR63 SUBPART T requirements.

[**40CFR 63 Subpart T, 12-8-2000**]

[Devices subject to this condition : D309, D312]

B59.23 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except xylene and propylene glycol

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D445]

B59.25 The operator shall not use the following material(s) in this device :

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

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except phenol, methanol, isopropyl alcohol and trichloroethylene.

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D289, D549]

B59.26 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 2/07/03 or earlier except HCL, HF or phosphoric acid

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D475, D542, D543, D544, D545, D546, D547]

B59.31 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of Feb. 2, 2003 or earlier except methanol.

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D466]

B59.32 The operator shall only use the following material(s) in this device :

Methanol

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

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1401, 2-7-2003]

[Devices subject to this condition : D466]

B59.33 The operator shall not use the following material(s) in this device :

toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorobenzene, methanol and phenol

[RULE 1401, 5-3-2002]

[Devices subject to this condition : D173, D174, D178, D179]

B59.34 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except chlorobenzene, isopropyl alcohol, and methanol.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D498]

B59.36 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid and hydrofluoric acid

[RULE 1401, 5-2-2003]

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

[Devices subject to this condition : D447, D477]

B59.38 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D428, D429, D430, D431, D432, D433, D501, D502, D503]

B59.39 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except nickel and nickel compounds.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D505, D551]

B59.40 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine, hydrochloric acid, phosphoric acid, hydrofluoric acid, ammonia and isopropyl alcohol

[RULE 1401, 5-2-2003]

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

[Devices subject to this condition : D510, D511, D512, D513, D514, D515, D516, D517, D518, D519]

B59.41 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid, hydrofluoric acid, sulfuric acid and phosphoric acid.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D394, D395, D420]

B59.43 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D520, D521, D523, D524, D525]

B59.44 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine, arsenic, and isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D522]

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

B59.45 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 5/02/03 or earlier except hexavalent chrome, nickel or beryllium

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D530, D531, D532, D533, D534, D535, D536, D538, D539, D540, D541]

B59.47 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except isopropyl alcohol, methanol, phenol and naphtalene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D358, D361, D474, D476]

B59.49 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except cresol, isopropyl alcohol, methanol, xylene, phenol and chlorobenzene.l

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

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

B59.50 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except nitric acid, hydrofluoric acid, cresol, xylene, isopropyl alcohol, methanol, and chlorobenzene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D346, D347]

B59.51 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except isopropyl alcohol, methanol, chlorobenzene, phenol and naphtalene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D482]

B59.52 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrofluoric acid, hydrochloric acid, ammonia, chlorine or isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D349, D403, D404, D406, D407, D507, D508, D509, D552]

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

B59.53 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, isopropyl alcohol and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D571, D572, D573]

B59.54 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hydrofluoric acid and phosphoric acid

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D574]

B59.55 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D577, D579]

B59.56 The operator shall not use the following material(s) in this device :

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

Solvents that have a Volatile Organic Compound (VOC) content greater than 15 weight percent

[**RULE 1303(a)-BACT, 5-10-1996**]

[Devices subject to this condition : D577, D579]

B59.57 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid, hydrofluoric acid and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D348]

B59.58 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/4/05 or earlier except hydrofluoric acid or chlorine

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D584]

B59.64 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hydrofluoric acid, nickel sulfamate, nitric acid, phosphoric acid, sulfuric acid, copper and copper sulfate.

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

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D439]

B59.67 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/07/08 or earlier except Acetaldehyde, Formaldehyde, 1,4-Dioxane, Ethylene Oxide and Hydrochloric Acid

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D598]

B59.68 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 6/05/09 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid, phosphoric acid, sulfuric acid and sodium hydroxide.

[RULE 1401, 6-5-2009]

[Devices subject to this condition : D440, D441, D442]

B163.1 The operator shall only use fuel oil containing the following:

a sulfur content that complies with rule 431.2

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

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

[Devices subject to this condition : D27, D32]

C. Throughput or Operating Parameter Limits

C1.2 The operator shall limit the maintenance testing to no more than 50 hour(s) in any one year.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D27, D32]

C1.4 The operator shall limit the material processed to no more than 960 lb(s) in any one day.

For the purpose of this condition, material processed shall be defined as hydrazine.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D198]

C1.6 The operator shall limit the material processed to no more than 3600 in any one month.

For the purpose of this condition, material processed shall be defined as the total number of wafers processed.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D306]

C1.7 The operator shall limit the operating time to no more than 200 hours in any one year.

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

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.

Operation beyond 50 hours per year for maintenance and testing is allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage provided that: 1) the electrical grid operator or the electric utility has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time; and 2) the engine is located in a utility service block that is subject to the rotating outage.

The operator shall maintain an engine operation log listing the date of operation, the elapsed time, in hours, and the reason for opertion shall be kept and maintained on file for a minimum of five years and made available to District personnel upon request.

[RULE 1110.2, 6-3-2005; **RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1304(a) -Modeling and Offset Exemption, 6-14-1996**]

[Devices subject to this condition : D27, D32]

C1.9 The operator shall limit the operating time to no more than 200 hours 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, 6-3-2005; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**]

[Devices subject to this condition : D30, D31]

C1.14 The operator shall limit the fuel usage to no more than 20 lb(s) in any one day.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, fuel usage shall be defined as the total quantity of all materials used in this device as specified in condition no. B59.3, not including nitrogen tetroxide, oxygen, hydrogen peroxide, and hydrazine.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D198]

C1.15 The operator shall limit the material processed to no more than 180 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D333]

C1.17 The operator shall limit the material processed to no more than 93 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D335]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.18 The operator shall limit the material processed to no more than 430 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D337]

C1.19 The operator shall limit the material processed to no more than 300 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D338]

C1.24 The operator shall limit the material processed to no more than 42 gallon(s) per month.

This limit shall be based on the total combined limit for equipment D411 - D414.

For the purpose of this condition, material processed shall be defined as material with a VOC content of 9.2 lbs/gal or less.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D411, D412, D413, D414]

C1.25 The operator shall limit the material processed to no more than 30 lb(s) in any one year.

For the purpose of this condition, material processed shall be defined as Arsine gas.

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

[RULE 1401, 7-10-1998]

[Devices subject to this condition : D307]

C1.26 The operator shall limit the material processed to no more than 300 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

This limit shall be based on the total combined limit for equipment D416, D417 & D550.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D416, D417, D550]

C1.27 The operator shall limit the material processed to no more than 8000 gallon(s) per year.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, material processed shall be defined as waste materials transferred into this tank. Such waste materials shall not contain any volatile toxic air contaminants identified in Rule 1401, Table 1 with an effective date of June 15, 2001 or earlier except Ammonia, Hydrofluoric Acid, and Phosphoric Acid.

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

[RULE 1401, 6-15-2001]

[Devices subject to this condition : D459]

C1.28 The operator shall limit the material processed to no more than 132000 gallon(s) per year.

For the purpose of this condition, material processed shall be defined as waste solvent transferred into this tank.

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

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D148, D149]

C1.29 The operator shall limit the material processed to no more than 27 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as potassium dichromate added to batch.

[RULE 1401, 12-7-1990]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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 : D441]

C1.30 The operator shall limit the material processed to no more than 26 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as as material containing VOC.

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**]

[Devices subject to this condition : D445]

C1.31 The operator shall limit the coating and solvent usage to no more than 3.0 gallon(s) per day.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D466]

C1.33 The operator shall limit the material processed to no more than 15 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as material with a voc content of 9.2 lbs/gallon or less.

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

[Devices subject to this condition : D173, D174, D178, D179]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.35 The operator shall limit the material processed to no more than 102 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as total quantity of volatile organic compounds(VOC) emitted from this equipment.

This limit shall be based on the total combined limit for equipment 290, D291.

To comply with this condition, the operator shall comply with the following recordkeeping requirements:.

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound emissions)..

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit. 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..

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months..

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years..

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D290, D291]

C1.36 The operator shall limit the material processed to no more than 0.50 gallon(s) per month.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, material processed shall be defined as isopropyl alcohol.

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

[Devices subject to this condition : D522]

C1.37 The operator shall limit the material processed to no more than 80 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as photoresist coatings (Microposit 1822 / 1813).

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; RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

C1.41 The operator shall limit the material processed to no more than 1836 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D357, D358, D359, D361 and D482.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D357, D358, D359, D361]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.42 The operator shall limit the material processed to no more than 649 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D346 through D348, D350, D352 through D355, D481, D587 through D589..

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D346, D347, D348, D350, D352, D353, D354, D355, D481]

C1.43 The operator shall limit the material processed to no more than 450 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D319, D320, D482 and D483.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D482]

C1.44 The operator shall limit the material processed to no more than 660 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D474 and D476.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D474, D476]

C1.45 The operator shall limit the material processed to no more than 190 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D289 and D549.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D289, D549]

C1.46 The operator shall limit the material processed to no more than 2.0 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC. The limit shall be based on the total combined limit for equipment D349 and D552.

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

[Devices subject to this condition : D349, D552]

C1.47 The operator shall limit the material processed to no more than 325 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as solvents containing VOC.

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

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D498]

C1.48 The operator shall limit the material processed to no more than 45 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as clean-up solvent excluding the amount salvaged for reclaimation.

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]

[Devices subject to this condition : D243, D244, D245, D255]

C1.49 The operator shall limit the operating time to no more than 1200 hour(s).

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, operating time shall be defined as the time elasped between filter changes.

The operator shall shall not use this equipment unless the exhaust fan is turned on.

The operator shall not operate this equipment near open doorways, open windows, air conditioning, heating ovens or any areas where is likely to be effected by any other equipment.

The operator shall not use this equipment unless the main carbon filter door and sash door are completely closed.

The operator shall set the alarm to warn the operator when the total elapsed operating hours for the main and safety carbon filters reaches 1199 hours or less of operation.

The operator shall replace the main and safety carbon filters with a new one whenever the total elapsed operating hours from the last time the main and safety carbon filters were replaced is 1200 hours or less.

The operator shall replace the main and safety carbon filters with a new one whenever the hydrocarbon sensor detects breakthrough which is indicated as "Approaching Saturation" on the instrument panel for this equipment. The breakthrough shall be set at a TLV between 0 to 50 ppm.

The operator shall dispose of the spent carbon filters properly.

The operator shall keep a log to indicate the date pre-filter, the main and safety carbon filters are replaced. The records shall be kept for a period of at least five years and made available to District personnel upon request.

The operator shall replace the pre-filter whenever the check filter light on the panel comes on, or at least when the main carbon filters and safety filters are replaced.

The operator shall not use halogenated solvents to conduct rule 1122 operations in this equipment.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall not vent emissions from any equipment or operations that are conducted outside of this fume hood.

The operator shall not use any heated solvents/cleaners or any container that hold heated solvents/cleaners inside this fume hood.

The operator shall not heat any solvents/cleaners or heat any container that holds solvents/cleaners in this fume hood.

[**RULE 1122, 10-1-2004; RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** RULE 1171, 7-14-2006]

[Devices subject to this condition : C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C575, C582, C583]

C1.50 The operator shall limit the operating time to no more than 1160 hour(s).

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

For the purpose of this condition, operating time shall be defined as the time elasped between filter changes.

The operator shall shall not use this equipment unless the exhaust fan is turned on.

The operator shall not operate this equipment near open doorways, open windows, air conditioning, heating ovens or any areas where is likely to be effected by any other equipment.

The operator shall not use this equipment unless the main carbon filter door and sash door are completely closed.

The operator shall set the alarm to warn the operator when the total elapsed operating hours for the main and safety carbon filters reaches 1159 hours or less of operation.

The operator shall replace the main and safety carbon filters with a new one whenever the total elapsed operating hours from the last time the main and safety carbon filters were replaced is 1160 hours or less.

The operator shall replace the main and safety carbon filters with a new one whenever the hydrocarbon sensor detects breakthrough which is indicated as "Approaching Saturation" on the instrument panel for this equipment. The breakthrough shall be set at a TLV between 0 to 50 ppm.

The operator shall dispose of the spent carbon filters properly.

The operator shall keep a log to indicate the date pre-filter, the main and safety carbon filters are replaced. The records shall be kept for a period of at least five years and made available to District personnel upon request.

The operator shall replace the pre-filter whenever the check filter light on the panel comes on, or at least when the main carbon filters and safety filters are replaced.

The operator shall not use halogenated solvents to conduct rule 1122 operations in this equipment.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall not vent emissions from any equipment or operations that are conducted outside of this fume hood.

The operator shall not use any heated solvents/cleaners or any container that hold heated solvents/cleaners inside this fume hood.

The operator shall not heat any solvents/cleaners or heat any container that holds solvents/cleaners in this fume hood.

[**RULE 1122, 10-1-2004; RULE 1124, 9-21-2001; RULE 1171, 11-7-2003;** RULE 1171, 7-14-2006]

[Devices subject to this condition : C565, C566, C567, C568, C569, C570]

C1.51 The operator shall limit the material processed to no more than 282 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

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

[Devices subject to this condition : D571, D572]

C1.52 The operator shall limit the material processed to no more than 2.0 gallon(s) per day.

For the purpose of this condition, material processed shall be defined as Trichloroethylene (TCE) used.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D289, D549]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.54 The operator shall limit the material processed to no more than 12000 gallon(s) per year.

For the purpose of this condition, material processed shall be defined as waste solvent transferred into this tank.

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 1401, 12-7-1990]

[Devices subject to this condition : D150]

C1.57 The operator shall limit the material processed to no more than 0.5 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1401, 3-7-2008]

[Devices subject to this condition : D598]

C6.1 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**]

[Devices subject to this condition : C151]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C6.4 The operator shall use this equipment in such a manner that the arsine concentration being monitored, as indicated below, does not exceed 0.05 ppm.

The operator shall install and maintain a(n) MDA gas detector or other District approved toxic gas sensor to continuously measure the Arsine concentration in the exhaust stream from the carbon adsorber.

The operator shall record the parameter being monitored once every 60 minute(s).

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

C6.5 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 2.0 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 HEPA filter(s).

[RULE 1401, 5-2-2003]

[Devices subject to this condition : C548, C581]

C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 100 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C232]

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NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C8.2 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 60 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C4, C159]

C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 150 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

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

[Devices subject to this condition : C6, C160, C233, C529]

C8.4 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, is not less than 10 Psig.

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the water supplied to both stages of the scrubber.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C13]

C8.5 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 125 gpm.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the scrubbing solution supplied to the spray nozzles.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C161]

C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 65 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C2]

C8.9 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-1.

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

[Devices subject to this condition : C2, C4, C6, C13, C159, C160, C161, C232, C233, C529]

C8.10 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, is not less than 5 Psig.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure of the water supplied to the scrubber.

The operator shall record the parameter being monitored once every 24 hours.

This condition shall only apply if the operator chooses not to comply with condition no. C8.11.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C162]

C8.11 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 0.22 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the water supplied to the scrubber.

The operator shall record the parameter being monitored once every 24 hours.

This condition shall only apply if the operator chooses not to comply with condition no. C8.10.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C162]

C8.12 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 0.5 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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**]

[Devices subject to this condition : C467]

C8.13 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 11.5 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-2.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C467]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the carbon adsorber columns.

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

[Devices subject to this condition : C308]

D12.2 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the exhaust fan.

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

[Devices subject to this condition : C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C565, C566, C567, C568, C569, C570, C575, C582, C583]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

The test shall be conducted within the first 12 months after issuance of this permit and once every 5-year period with the first 5-year period ending 12-31-2004.

The test shall be conducted to demonstrate compliance with the source testing requirements of Rule 2012 for a Process Unit opting to comply with a NOx concentration limit.

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

[Devices subject to this condition : D314, D321]

D28.7 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the capture efficiency based on the mass of VOC usage in the basic equipment/process served.

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

The test shall be conducted after a source test protocol has been submitted and approved by the District.

[**RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C455]

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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

The test shall be conducted within the first 12 months after the issuance of this permit and once every 5-year period.

The test shall be conducted to demonstrate compliance with the source testing requirements of Rule 2012 for a Process Unit opting to comply with a NOx concentration limit.

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

[Devices subject to this condition : D593]

D29.2 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	District-approved averaging time	Simultaneous inlet and outlet

The test shall be conducted at least once during the life of the permit but no later than July 9, 2010 unless otherwise approved in writing by the District.

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

The test shall be conducted while the oxidizer 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 the permit, the minimum operating temperature specified in this permit may be increased to reflect the operating temperature during the source test.

The operator shall comply with administrative conditions NOs. 8, 9, and 10 of Section E of this facility permit

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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 : C305, C332, C364, C455, C460]

D90.1 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

The operator shall use litmus paper or a portable pH analyzer to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

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

[Devices subject to this condition : C2, C4, C6, C13, C159, C160, C161, C232, C233, C529]

D90.2 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

The operator shall use a portable pH analyze to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

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

[Devices subject to this condition : C467]

D111.1 The operator shall comply with the tune-up requirements of Rule 1146. Records shall be maintained for the date of each tune-up, the company performing the tune-up, and the tune-up results for NOX, CO and O2.

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

[**RULE 1146, 11-17-2000**]

[Devices subject to this condition : D19]

D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 3 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D30, D31]

D182.1 The operator shall test this equipment in accordance with the following specifications:

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

The test shall be conducted no later than 180 days after the initial start-up of this equipment unless otherwise approved in writing by the District.

The test shall be conducted in accordance with the standard source test protocol for boilers subject to a concentration limit to determine compliance with rule 2012. The Certification of No Exception shall be submitted with the source test report.

A written notice of the source test shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) at least 14 days prior to the source testing date so that an observer from the District may be present

Emissions data shall be expressed in terms of concentration (ppmv), corrected to 3 percent, dry basis

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).

Two complete copies of the source test reports shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) within 45 days after the source testing date. The source test report shall include, but is not limited to, all testing data required by this condition

The test shall be conducted to determine the NOx emissions at the outlet.

A testing laboratory certified by the California Air Resources Board in the required test methods for criteria pollutants to be measured, and in compliance with District Rule 304 (no conflict of interest) shall conduct the test

Sampling facilities shall comply with the District guidelines for construction of sampling and testing facilities, pursuant to Rule 217

[**RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

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

[Devices subject to this condition : D365, D457]

D182.3 The operator shall test this equipment in accordance with the following specifications:

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

The test shall be conducted within 180 days after the initial start-up unless otherwise approved in writing by the Executive Officer..

The source tests shall be performed to verify compliance with the NOx and CO emission limits specified by this permit

The tests shall be conducted while the burner is firing at maximum, minimum, and average firing rates

Written notice of the source tests shall be submitted to the District (addressed to South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) at least 14 days prior to testing so that an observer can be present

Two complete copies of the source test reports shall be submitted to the District (South Coast Air Quality Management District, P.O. Box 4941, Diamond Bar, CA 91765) within 45 days after the test. The report shall include, but may not be limited to emissions rates in pounds per hour and concentrations in ppmv at the outlet of the boiler, measured on a dry basis at 3% oxygen. The following operating data shall also be included for each firing rate:

A. The exhaust flow rates, in actual cubic feet per minute (ACFM)

B. The firing rates, in BTU per hour

C. The exhaust temperature, in degrees F

D. The oxygen content of the the exhaust gases, in percent

E. The fuel flow rate

A testing laboratory certified by the California Air Resources Board in the required test methods for criteria pollutant to be measured, and in compliance with District Rule 304 (non conflict of interest) shall conduct the test

Sampling facilities shall comply with the District Guidelines for Construction of

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

Sampling and Testing Facilities, pursuant to Rule 217

[**RULE 1146.1, 5-13-1994; RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 2012, 5-6-2005**]

[Devices subject to this condition : D593]

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 : C151]

D322.2 The operator shall perform a monthly inspection of the cover to assure compliance with Rule 1122(c)(2)(A).

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

[Devices subject to this condition : D290, D291, E298, D309, D312, D313]

D322.3 The operator shall perform annual 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 : E586]

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

D323.1 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 a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-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 that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

1). 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; or

2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

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;

3). Date and time visible emission was abated; and

4). All visible emission observation records by operator or a certified smoke reader.

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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 : D198]

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146.1 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D21, D22, D24, D314]

D332.2 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 concentration limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D19]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D332.3 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with the CO concentration limit(s). The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D321, D365, D457, D593]

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**]

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

[Devices subject to this condition : E586]

E. Equipment Operation/Construction Requirements

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C460 [OXIDIZER, RTO, 1.5 MMBTU/HR]

Requirement number 1: On days where the total VOC emissions from semiconductor manufacturing and related operations subject to District Rule 1164 at this facility are less than 5 pounds.

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : D157]

E71.1 The operator shall only operate this equipment using once through water as the scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : C162]

E71.2 The operator shall only operate this equipment if the sink drain vents are exhausted to air pollution control.

[**RULE 1164, 1-13-1995; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D148, D149]

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

E71.3 The operator shall not use this equipment for electrolytic chrome plating or stripping.

[RULE 1469, 12-5-2008]

[Devices subject to this condition : D439]

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

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

[Devices subject to this condition : E586]

E128.1 The operator shall keep all waste solvent in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : D304]

E128.2 The operator shall keep all spent carbon in a tightly covered container which shall remain closed except when it is being transferred into or out of the container.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

E129.1 The operator shall only dispose liquid waste from this equipment at an approved waste disposal site.

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

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : D304]

E133.1 The operator shall maintain an interlock control system which will automatically shutdown the MOCVD Deposition Reactor (device D-307) whenever the Arsine gas concentration as measured in the exhaust stream from the carbon adsorber exceeds 0.055 ppmv.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : D307, C308]

E149.1 The operator shall replace the carbon filters at least once every time there is an accidental leak of flourine gas.

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

[Devices subject to this condition : C15]

E149.2 The operator shall replace the carbon filters at least once every time there is an accidental leak of chlorine gas or hydrazine from the gas cabinet to the carbon filter.

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

[Devices subject to this condition : C14]

E149.3 The operator shall replace the carbon filters at least once every time there has been a discharge of fluorine/helium gas from the gas cabinet to the carbon filter.

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

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

[Devices subject to this condition : C16]

E149.4 The operator shall replace the the carbon filter at least once every 932 cycles.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : D577, D579]

E158.1 The operator shall maintain a continuous overflow of water from the scrubber sump to prevent build up of contamination.

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

[Devices subject to this condition : C2, C4, C6, C159, C160, C161, C232, C233, C467, C529]

E159.1 The operator shall maintain inspection ports which, when opened, allow the observation of the spray nozzles and the scrubbing solution being sprayed on the packing.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C2, C4, C6, C159, C160, C161, C232, C529]

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**]

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

[Devices subject to this condition : C151]

E175.2 The operator shall not use this equipment unless all exhaust air passes through the following:

HEPA filters designed with a 99.97% control efficiency

The HEPA filters used in this equipment shall be individually DOP tested with 0.3 micron particles and certified to have an efficiency of not less than 99.97%

[RULE 1401, 5-2-2003]

[Devices subject to this condition : C548, C581]

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

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

The combustion chamber temperature shall be maintained at a minimum of 1,500 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 a combustion chamber temperature of less than 1,500 degrees Fahrenheit occurs whenever the equipment it serves is in operation. The operator shall review the records of the combustion chamber 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 1,500 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken

All deviations 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

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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; 40CFR Part 64, 10-22-1997**]

[Devices subject to this condition : C305, C332, C364, C455, C460]

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

The operator shall continuously monitor the pressure relief device by installing a valve monitoring device capable of recording the amount of compounds released.

The operator shall maintain records to demonstrate compliance with the above requirement.

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

[Devices subject to this condition : D150]

E224.1 The operator shall replace the carbon in the adsorber with fresh carbon when the Arsine concentration as measured in the exhaust stream from the adsorber exceeds 0.050 ppmv, or when the temperature at the bottom of the carbon bed exceeds 50 Deg C during the oxidation process.

[RULE 1401, 7-10-1998]

[Devices subject to this condition : C308]

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

H. Applicable Rules

H23.1 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

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

[Devices subject to this condition : E294]

H23.2 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**]

[Devices subject to this condition : E296, E310, D337, D338, D445]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109
VOC	District Rule	1122

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

[**RULE 109, 5-2-2003; RULE 1122, 10-1-2004**]

[Devices subject to this condition : E295, E298, D577, D579]

H23.4 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 : C151]

H23.7 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 : D309, D312, D313, C554, C555, C556, C557, C558, C559, C560, C561, C563, C564, C565, C566, C567, C568, C569, C570, C575, C582, C583]

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart

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

VOC	District Rule	1164
VOC	District Rule	109

[**RULE 109, 5-2-2003; RULE 1164, 1-13-1995**]

[Devices subject to this condition : D111, D120, D243, D244, D245, D255, D451, D466, D526, D527]

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1470

[RULE 1470, 3-4-2005]

[Devices subject to this condition : D27, D30, D31, D32]

H339.1 The operator shall determine compliance with Rule 1122(e)(1)(B)requirements by measuring the temperature at the center of the air blanket once a month if the freeboard refrigeration device is used, or measuring the temperature at the center of the superheated solvent vapor zone once a month if superheated vapor system is used. In addition to the recordkeeping requirements in Section K of this Facility Permit, the operator shall keep records of the corrective actions taken when the monitoring demonstrates non-compliance.

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

[Devices subject to this condition : D290, D291, E298, D309, D312, D313]

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

K. Record Keeping/Reporting

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

Source test results shall be submitted to the District no later than 30 days after the source test was conducted.

[**RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C305, C332, C364, C455, C460]

K40.2 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

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

[Devices subject to this condition : D314, D321, D593]

K48.1 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 224- 1

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

[Devices subject to this condition : C308]

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

K48.3 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1-35

Condition Number B 27- 1

Condition Number B 59- 1

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1401, 12-7-1990]

[Devices subject to this condition : D290, D291]

K48.4 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 6

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

[Devices subject to this condition : D306]

K48.5 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 54- 1

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

[Devices subject to this condition : D157]

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

K48.7 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number B 27- 5

Condition Number D 322- 2

Condition Number H 339- 1

[**RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1401, 12-7-1990; **RULE 3004(a)(4) -Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D313]

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

Weekly record of pressure drop across the filter media.

Material Safety Data Sheets for all coatings and solvents used at this facility shall be kept current and made available to District personnel upon request.

The operator shall keep adequate records for this equipment to verify daily and/or calendar monthly volatile organic compound emissions in pounds and the VOC content of each material as applied including water and exempt solvent. All records shall be prepared in a format which is acceptable to the District and shall be made available to District personnel upon request

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

The date, time and results of the filter media inspection.

The date, time and description of any maintenance or repairs resulting from the filter media inspection.

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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 : C151]

K67.2 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 : E297]

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

pH of scrubbing solution on a daily basis

flow rate of recirculating scrubbing solution on a daily basis

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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 : C2, C4, C6, C13, C159, C160, C161, C232, C233, C467, C529]

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

An engine operating log listing the date of operation, the elapsed time, in hours, and the reson for operation

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

[Devices subject to this condition : D30, D31]

K67.5 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 filter media inspection.

The date, time and description of any maintenance or repairs resulting from the filter media inspection.

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

[Devices subject to this condition : E586]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 1: CONTROL EQUIPMENT					
SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 55-4 A/N: 474041 Permit to Construct Issued: 03/25/08	C4	D546		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.2, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, MODEL NO. HPH 78-4, WIDTH: 8FT, LENGTH: 6FT 3IN, DEPTH:7FT, WITH A 4FT PACKING DEPTH, A 30-HP EXHAUST FAN AND THREE 2-HP RECIRCULATION PUMPS A/N: 502641 Permit to Construct Issued: 08/24/10	C6	D428 D429 D430 D431 D432 D433 D434 D435 D438 D501 D502 D503 D537 D595 D597		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, E159.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, HPH 66-4, WIDTH:7FT 3IN; HEIGHT: 8FT 2IN; LENGTH: 10FT 5IN;, WITH A 4FT PACKING DEPTH, A20-HP EXHAUST FAN, AND THREE 2-HP CIRCULATION PUMPS A/N: 503380 Permit to Construct Issued: 01/05/10	C232	D349 D383 D397 D398 D406 D407 D477 D507 D508 D509 D552 D584 D596		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.1, C8.9, D90.1, E158.1, E159.1, I331.1, K67.3
SCRUBBER, PACKED BED, HARRINGTON, HPH 78-4 A/N: 455307 Permit to Construct Issued: 11/16/06	C233	D540		**PM**: (9) [**RULE 404, 2-7-1986**]	C8.3, C8.9, D90.1, E158.1, K67.3

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 1: CONTROL EQUIPMENT					
OXIDIZER, THERMAL, NO. 4, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: 474064 Permit to Construct Issued: 03/25/08	C364	D346 D347 D350 D352 D353 D354 D355 D357 D358 D359 D361 D482 D589	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, D29.2, E193.1, K40.1
OXIDIZER, THERMAL, NO. 2, ALLIANCE SYSTEMS, MODEL NO. 306-RTO, 3 BED HOT ROCK TYPE, NATURAL GAS, WITH A 30-HP EXHAUST FAN, 10-HP BYPASS FAN AND A 3.0-HP COMBUSTION BLOWER, 1.5 MMBTU/HR A/N: 445656 Permit to Construct Issued: 11/16/06	C460	D157 D301 D481 D587 D588	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, D29.2, E193.1, K40.1
OXIDIZER, HOT BED, NO. 3, GRACE TEC SYSTEMS, MODEL NO. ENTERPRISE IIL-060, NATURAL GAS, TWO ZONES, 8 FT W. X 18 FT L. X 10 FT H., 1.5 MMBTU/HR A/N: 455305 Permit to Construct Issued: 11/09/06	C305	D76 D77 D78 D82 D274 D299 D333 D337 D484 D498 D571 D572	NOX: PROCESS UNIT**	**CO**: 2000 PPMV (5) [**RULE 407, 4-2-1982**]; **NOX**: 130 LBS/MMSCF NATURAL GAS (1) [**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, A72.3, D29.2, E193.1, K40.1
Process 9: BPL LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST COATER NO. 1 A/N: 499348 Permit to Construct Issued: 09/11/09	D411	C455			B59.14, C1.24

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 9: BPL LAB					P13.1
BENCH, PHOTORESIST COATER NO. 2 A/N: 499348 Permit to Construct Issued: 09/11/09	D412	C455			B59.14, C1.24
BENCH, TRACK DEVELOP/STRIP STATIONS #1 & 2, HEIGHT: 5FT 10IN; LENGTH: 5FT; WIDTH: 3FT 10IN A/N: 499348 Permit to Construct Issued: 09/11/09	D438	C6			B59.20
OVEN, NO. 1, LABLINE, MODEL 3490M A/N: 499348 Permit to Construct Issued: 09/11/09	D413	C455			B59.14, C1.24
OVEN, NO. 2, LABLINE, MODEL 3490M A/N: 499348 Permit to Construct Issued: 09/11/09	D414	C455			B59.14, C1.24
OVEN, YES, MODEL YES-10TA A/N: 499348 Permit to Construct Issued: 09/11/09	D597	C6			B59.65, C1.56
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D428	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D429	C6			B59.38

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 9: BPL LAB					P13.1
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D430	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D431	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D432	C6			B59.38
PLASMA ETCHER, BACKSIDE VIA ETCH, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT, 65-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D433	C6			B59.38
PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D434	C6			B59.12
PLASMA ETCHER, MATRIX, HEIGHT: 6FT; LENGTH: 3FT; WIDTH: 4FT; 21.4-KVA A/N: 499350 Permit to Construct Issued: 09/11/09	D435	C6			B59.12

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 9: BPL LAB					P13.1
PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09	D501	C6			B59.38
PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09	D502	C6			B59.38
PLASMA ETCHER, CLEANER, TWO CHAMBER, TECHNIX, MODEL 800-II, LENGTH 3FT 5IN; WIDTH 3FT 5IN; HEIGHT 6FT 5IN; WITH 3 VACUUM PUMPS, 2.0-HP TOTAL A/N: 499350 Permit to Construct Issued: 09/11/09	D503	C6			B59.38
PLASMA ETCHER, STS, MODEL MPX HRM, LENGTH: 6 FT; WIDTH: 2 FT 4 IN; HEIGHT: 6 FT 1.75 IN, WITH TWO VACUUM PUMPS A/N: 499350 Permit to Construct Issued: 09/11/09	D595	C6			B59.55
Process 10: D1 EAST LAB					P13.1
System 1: Photolithographic Processes					

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06	D76	C305			
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06	D77	C305			
BENCH, PHOTORESIST COATER, SILICON VALLEY GROUP, MODEL NO. 8626, 3 FT W. X 4 FT 10 IN L. X 3 FT 7 IN H., WITH TWO TRACKS A/N: 455548 Permit to Construct Issued: 11/16/06	D78	C305			
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.4, 3 FT W. X 5 FT L. X 3 FT H., ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D154	C455			
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.3, MODEL NO. SSTC 621270, 18 KVA ELECTRICALLY HEATED, 6 FT 2 IN W. X 3 FT L. X 5 FT 10 IN H, WITH ONE SPINNER A/N: 455548 Permit to Construct Issued: 11/16/06	D274	C305			

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER/DEVELOPER, NO.1, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06	D299	C305			
BENCH, PHOTORESIST COATER/DEVELOPER, NO.2, MODEL SCORPIO 839, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06	D300	C161			B59.4
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.7, MODEL NO. EQP222SR, 16.2 KVA ELECTRICALLY HEATED, 4 FT 6 IN W. X 4 FT L. X 5 FT 6 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06	D333	C305			B27.4, C1.15
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO. 8, MODEL NO. SSTC401270, 3 FT 3 IN W. X 5 FT 5 IN L. X 5 FT 7 IN H., 7.2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D335	C455			B27.4, C1.17

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER/DEVELOPER, NO.4, MODEL SCORPIO 839, 4 FT 4 IN W. X 4 FT 3 IN L. X 5 FT 11 IN H., WITH TWO SPINNERS AND SIX BAKING OVENS A/N: 455548 Permit to Construct Issued: 11/16/06	D337	C305			B27.5, C1.18, H23.2
BENCH, PHOTORESIST STRIPPER, SEMITOOL NO.6, MODEL NO. EQ22PR, 9.36 KVA ELECTRICALLY HEATED, 4 FT W. X 4 FT 8 IN L. X 5 FT 5 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06	D520	C161			B59.4, B59.43
BENCH, PHOTORESIST DEVELOPER TRACK, SILICON VALLEY GROUP, MODEL NO. SVG-8632 CTD, 5 FT L. X 3 FT W. X 2 FT 8 IN H. A/N: 455548 Permit to Construct Issued: 11/16/06	D521	C161			B59.4, B59.43
OVEN, PHOTORESIST BAKE, LABLINE MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D79	C455			
OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D80	C455			

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
OVEN, PHOTORESIST BAKE, LABLINE, MODEL NO. 3490M, 2 FT W. X 1 FT 9 IN L. X 2 FT 11 IN H., 2 KW ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D81	C455			
OVEN, TRW NO. 1, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D276	C455			
OVEN, TRW NO. 2, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D277	C455			
OVEN, TRW NO. 3, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D278	C455			
OVEN, TRW NO. 7, PHOTORESIST BAKE, ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D279	C455			
OVEN, VAPOR PRIME, YEILD ENGINEERING, MODEL NO. YES-6, 1 FT 9 IN W. X 2 FT 11 IN L. X 1 FT 9 IN H., ELECTRICALLY HEATED A/N: 455548 Permit to Construct Issued: 11/16/06	D82	C305			
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: 455548 Permit to Construct Issued: 11/16/06	D571	C305			B59.53, C1.51

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800 SERIES A/N: 455548 Permit to Construct Issued: 11/16/06	D572	C305			B59.53, C1.51
OVEN, VAPOR PRIME, YIELD ENGINEERING SERVICES, MODEL NO. 310TA A/N: 455548 Permit to Construct Issued: 11/16/06	D573	C6			B59.53
BENCH, MANUAL PHOTORESIST COATER A/N: 455548 Permit to Construct Issued: 11/16/06	D484	C305			B59.60, C1.53
BENCH, DEVELOPER, TRACK, C&D A/N: 455548 Permit to Construct Issued: 11/16/06	D537	C6			B59.4, B59.55
System 4: Solvent Cleaning					
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: 455303 Permit to Construct Issued: 06/23/06	D474	C455			B59.47, C1.44
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEM, MODEL NO. SLFFH-600-SS, 4FT 7IN W X 5FT 10IN L X 5FT 10IN H, ELECTRICALLY HEATE A/N: 455303 Permit to Construct Issued: 06/23/06	D476	C455			B59.47, C1.44

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 10: D1 EAST LAB					P13.1
BENCH, PHOTORESIST DEVELOPER, PHOTORESIST DEVELOPER, CHLOROBENZENE SINK, WAFER PROCESS SYSTEMS, MODEL NO. WPS-, 400-FA-SS, 3 FT 4 IN W. X 3 FT 10 IN L. X 6 FT 4 IN H., HEATED 5.4 KVA A/N: 455303 Permit to Construct Issued: 06/23/06	D498	C305			B59.34, C1.47
Process 11: D1 WEST LAB					P13.1
System 1: Photolithographic Processes					
BENCH, PHOTORESIST COATER/DEVELOPER, NO.3, MODEL SCORPIO 841, 4 FT 4 IN W. X 5 FT 10 IN L. X 5 FT 4 IN H., WITH TWO SPINNERS AND ONE BAKING OVEN A/N: 455302 Permit to Construct Issued: 11/16/06	D301	C460			
BENCH, PHOTORESIST COATER NO. 1, 82 IN L. X 36 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: 455302 Permit to Construct Issued: 11/16/06	D346	C364			B59.50, C1.42
BENCH, PHOTORESIST COATER NO. 2, 82 IN L. X 52 IN W. X 80 IN H., WITH TWO WAFER CONVEYORS, TWO SPINNERS AND FOUR HOT PLATES A/N: 455302 Permit to Construct Issued: 11/16/06	D347	C364			B59.50, C1.42

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
BENCH, TRACK DEVELOP STATION NO. 1, POTASSIUM HYDROXIDE A/N: 455302 Permit to Construct Issued: 11/16/06	D397	C232			B59.9
BENCH, TRACK DEVELOP STATION NO. 2, POTASSIUM HYDROXIDE A/N: 455302 Permit to Construct Issued: 11/16/06	D398	C232			B59.9
BENCH, DEVELOPER, C&D SEMICONDUCTOR, MODEL 8800, WIDTH: 3FT 11 IN, HEIGHT: 5FT 10 IN, LENGTH:4FT 11 IN A/N: 455302 Permit to Construct Issued: 11/16/06	D477	C232			B59.4, B59.36
BENCH, PHOTORESIST COATER, C&D, SEMICONDUCTOR SERVICES, MODEL 8800, WIDTH: 2 FT 11 IN, LENGTH: 8 FT, HEIGHT:3 FT 11 IN A/N: 455302 Permit to Construct Issued: 11/16/06	D481	C460			B59.49, C1.37, C1.42
OVEN, NO. 2, VAPOR PRIME, 21.625 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED, 2.2 KVA A/N: 455302 Permit to Construct Issued: 11/16/06	D349	C232			B59.52, C1.46
OVEN, NO. 1, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D350	C364			B59.5, C1.42

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
OVEN, NO. 3, PHOTORESIST BAKE, 21.6 IN L. 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D352	C364			B59.5, C1.42
OVEN, NO. 4, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D353	C364			B59.5, C1.42
OVEN, NO. 5, PHOTORESIST BAKE, 21.6 IN L. X 24.25 W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D354	C364			B59.5, C1.42
OVEN, NO. 6, PHOTORESIST BAKE, 21.6 IN L. X 24.25 IN W. X 35 IN H., ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D355	C364			B59.5, C1.42
OVEN, NO. 1, VAPOR PRIME, 19.5 IN L. X 23.75 IN W. X 27.5 IN H., ELECTRICALLY HEATED, 2.2 KVA A/N: 455302 Permit to Construct Issued: 11/16/06	D348	C233			B59.4, B59.57, C1.42
OVEN, LABLINE,, LENGTH: 21.6 IN, WIDTH: 24.25 IN, HEIGHT: 35 IN, ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D587	C460			B59.62, C1.42

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
OVEN, LABLINE,, LENGTH: 21.6 IN, WIDTH: 24.25 IN, HEIGHT: 35 IN, ELECTRICALLY HEATED A/N: 455302 Permit to Construct Issued: 11/16/06	D588	C460			B59.62, C1.42
OVEN, BARNSTEAD, LABLINE, MODEL 3497M-3 A/N: 455302 Permit to Construct Issued: 11/16/06	D589	C364			B59.62, C1.42
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, ETCH NO. 1, 65-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D374	C160			B59.8
PLASMA ETCHER, ETCH NO. 2, 65-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D375	C160			B59.8
PLASMA ETCHER, CLEAN NO. 1, MATRIX, 6.0-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D378	C160			B59.8
PLASMA ETCHER, CLEAN NO. 5, MATRIX, 6.0-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D382	C160			B59.8
PLASMA ETCHER, CLEAN NO. 6, MATRIX, 6.0-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D383	C232			B59.8

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
PLASMA ETCHER, CLEAN NO. 9, MATRIX, 6.0-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D386	C160			B59.8
PLASMA ETCHER, CLEAN NO. 11, MATRIX, 6.0-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D388	C160			B59.8
PLASMA ETCHER, DEPOSITION NO. 1, PLASMA THERM INC. 65-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D390	C160			B59.8
PLASMA ETCHER, DEPOSITION NO. 2, PLASMA THERM INC. 65-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D391	C160			B59.8
PLASMA ETCHER, CLEAN NO. 1, MATRIX, 21.4-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D403	C160			B59.52
PLASMA ETCHER, CLEAN NO. 2, MATRIX, 21.4-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D404	C160			B59.52
PLASMA ETCHER, CLEAN NO. 4, MATRIX, 21.4-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D406	C232			B59.52

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
PLASMA ETCHER, MATRIX, MODEL EHP500,, WIDTH: 4FT, LENGTH: 3FT, HEIGHT: 6FT, WITH THREE VACUUM PUMPS A/N: 503381 Permit to Construct Issued: 01/05/10	D450	C233			B59.13
PLASMA ETCHER, ICP NO. 1, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 503381 Permit to Construct Issued: 01/05/10	D507	C232			B59.52
PLASMA ETCHER, ICP NO. 2, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 503381 Permit to Construct Issued: 01/05/10	D508	C232			B59.52
PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 503381 Permit to Construct Issued: 01/05/10	D509	C232			B59.52
PLASMA ETCHER, DESCUMMER, BRANSON/IPC, MODEL REACTOR CENTER PM 1813, DIMENSIONS: HEIGHT: 3FT; LENGTH: 3FT; WIDTH: 3FT A/N: 503381 Permit to Construct Issued: 01/05/10	D528				B27.7

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
FURNACE, PHOTORESIST COATER/DEVELOPER, THERMCO A/N: 503381 Permit to Construct Issued: 01/05/10	D183	C160			
ION IMPLANTER, ION BEAM MILL VACUUM PUMP A/N: 503381 Permit to Construct Issued: 01/05/10	D182	C233			
EVAPORATOR, CHA MK50 A/N: 503381 Permit to Construct Issued: 01/05/10	D191				
DEPOSITION REACTOR, SPUTTERING NO. 1, 21.4-KVA A/N: 503381 Permit to Construct Issued: 01/05/10	D407	C232			B59.52
PROCESS TANK, PASS-THRU ACID UNIT A/N: 503381 Permit to Construct Issued: 01/05/10	D189	C160			
DEPOSITION REACTOR, VAPOR PRIME, Y.E.S., LENGTH: 19.5IN; WIDTH: 23.75IN; HEIGHT: 27.5IN;, ELECTRICALLY HEATED A/N: 503381 Permit to Construct Issued: 01/05/10	D552	C232			B59.52, C1.46
PLASMA ETCHER, ICP NO. 3, TRIKON, MODEL OMEGA, LENGTH: 3FT; WIDTH: 4FT; HEIGHT: 6FT; 65-KVA, WITH THREE VACUUM PUMPS, 2.0-HP TOTAL A/N: 503381 Permit to Construct Issued: 01/05/10	D584	C232			B59.58

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
DEPOSITION REACTOR, PECVD DIELECTRIC, TRIKON TECHNOLGIES, DELTA 201,65-KVA,, LENGTH: 5FT; WIDTH: 3FT 4IN; HEIGHT: 6FT 1IN, WITH 3 VACUUM PUMPS, 4-HP TOTAL A/N: 503381 Permit to Construct Issued: 01/05/10	D585				B59.59
PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 503381 Permit to Construct Issued: 01/05/10	D540	C233			B59.55
PLASMA ETCHER, TEGAL, MODEL 110, LENGTH: 2 FT 9IN; WIDTH: 6 FT 4 IN; HEIGHT: 6 FT 10IN, WITH TWO VACUUM PUMPS A/N: 503381 Permit to Construct Issued: 01/05/10	D596	C232			B59.66, C1.55
System 4: Solvent Cleaning					
BENCH, COATER/DEVELOPER, DEXON, 2 KVA ELECTRICALLY HEATED, 2 FT 6 IN W. X 6 FT L. X 3 FT H. A/N: 474053 Permit to Construct Issued: 03/25/08	D157	C460			B59.16, E54.1, K48.5
BENCH, SOLVENT CLEANING STATION NO. I, ONE SINK, 3 FT W. X 4 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08	D357	C364			B59.19, C1.41

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 11: D1 WEST LAB					P13.1
BENCH, SOLVENT CLEANING STATION NO. A, THREE SINKS, 3 FT W. X 5 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08	D358	C364			B59.47, C1.41
BENCH, SOLVENT CLEANING STATION NO. B, SIX SINKS, 3 FT W. X 4 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08	D359	C364			B59.19, C1.41
BENCH, SOLVENT CLEANING STATION NO. D, THREE SINKS, 3 FT W. X 6 FT L. X 6 FT 8 IN H., UNHEATED A/N: 474053 Permit to Construct Issued: 03/25/08	D361	C364			B59.47, C1.41
BENCH, SOLVENT STRIP/LIFTOFF, WAFER PROCESS SYSTEMS, 2-KVA ELECTRICALLY HEATED A/N: 474053 Permit to Construct Issued: 03/25/08	D482	C364			B59.47, C1.41
Process 13: 3D LAB					P13.1
System 2: Integrated Circuit Fabrication					
PLASMA ETCHER, NO. 1, MATRIX, MODEL 105E, WIDTH:4FT;LENGTH: 3FT; HEIGHT: 6FT A/N: 503381 Permit to Construct Issued: 01/05/10	D540	C233			B59.55
Process 14: SURFACE PREPARATION					
System 1: Etching Line					

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

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
Process 14: SURFACE PREPARATION					
BENCH, WET STATION, HBT, NO. 2, 6FT, UNHEATED A/N: 474044 Permit to Construct Issued: 03/25/08	D546	C4			B59.4, B59.63

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

SECTION H: 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
NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

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C6	1	1	0
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D77	6	10	1
D78	6	10	1
D79	8	10	1
D80	8	10	1
D81	9	10	1
D82	9	10	1
D154	6	10	1
D157	18	11	4
D182	17	11	2
D183	17	11	2
D189	17	11	2
D191	17	11	2
C232	1	1	0
C233	1	1	0
D274	6	10	1
D276	9	10	1
D277	9	10	1
D278	9	10	1
D279	9	10	1
D299	7	10	1
D300	7	10	1
D301	11	11	1
C305	2	1	0
D333	7	10	1
D335	7	10	1
D337	8	10	1
D346	11	11	1
D347	11	11	1
D348	13	11	1
D349	12	11	1
D350	12	11	1

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	**Section H Page No.**	**Process**	**System**
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D353	13	11	1
D354	13	11	1
D355	13	11	1
D357	18	11	4
D358	19	11	4
D359	19	11	4
D361	19	11	4
C364	2	1	0
D374	14	11	2
D375	14	11	2
D378	14	11	2
D382	14	11	2
D383	14	11	2
D386	15	11	2
D388	15	11	2
D390	15	11	2
D391	15	11	2
D397	12	11	1
D398	12	11	1
D403	15	11	2
D404	15	11	2
D406	15	11	2
D407	17	11	2
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D429	3	9	2
D430	4	9	2
D431	4	9	2
D432	4	9	2
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	**Section H Page No.**	**Process**	**System**
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D435	4	9	2
D438	3	9	1
D450	16	11	2
C460	2	1	0
D474	10	10	4
D476	10	10	4
D477	12	11	1
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D482	19	11	4
D484	10	10	1
D498	11	10	4
D501	5	9	2
D502	5	9	2
D503	5	9	2
D507	16	11	2
D508	16	11	2
D509	16	11	2
D520	8	10	1
D521	8	10	1
D528	16	11	2
D537	10	10	1
D540	18	11	2
D540	19	13	2
D546	20	14	1
D552	17	11	2
D571	9	10	1
D572	10	10	1
D573	10	10	1
D584	17	11	2
D585	18	11	2
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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: DEVICE ID INDEX

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FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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 833 LBS IN ANY ONE MONTH

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). 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.

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all equipment and operations that are subject to Rule 442.

[**RULE 442, 12-15-2000**]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

CONTAMINANT	EMISSIONS LIMIT
VOC	Less than or equal to 22 LBS IN ANY ONE MONTH

To ensure compliance with the monthly Volatile Organic Compound(VOC) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from all equipment and operations covered by the monthly emission limit(s). 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.

(3) The operator shall maintain a single list which includes only the name and address of each person from whom the facility acquired VOC-containing material regulated by the District that was used or stored at the facility during the preceding 12 months.

(4) The operator shall retain all purchase invoices for all VOC-containing material used or stored at the facility, and all waste manifests for all waste VOC-containing material removed from the facility, for five years.

For the purpose of this condition, the VOC emission limit shall be from all vapor degreasers operating under the Rule 1122 exemption pursuant to Rule 1122(k)(2).

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

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

F2.3 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

To ensure compliance with the 12-month Volatile Hazardous Air Pollutant (VHAP) emission limit(s) of this condition, the operator shall comply with the following recordkeeping requirements:

(1) The operator shall comply with Rule 109 (Recordkeeping for Volatile Organic Compound Emissions).

(2) Within 14 calendar days after the end of each month, the operator shall total and record VHAP emissions for the month and for the previous 12 month period from all equipment and operations covered by the 12-month emission limit(s). 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.

(3) The operator shall 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.

(4) The operator shall 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, for five years.

[**40CFR 63 Subpart BBBBB, 5-22-2003**]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

District Rule 1420

[RULE 1420, 9-11-1992]

PROCESS CONDITIONS

P13.1 All devices under this process are subject to the applicable requirements of the following rules or regulations:

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1164
VOC	District Rule	109

[**RULE 109, 5-2-2003; RULE 1164, 1-13-1995**]

[Processes subject to this condition : 8, 9, 10, 11, 12, 13]

P13.2 All devices under this process are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122
VOC	District Rule	109

[**RULE 109, 5-2-2003; RULE 1122, 10-1-2004**]

[Processes subject to this condition : 4]

SYSTEM CONDITIONS

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
HAPs	District Rule	1426

[RULE 1426, 5-2-2003]

[Systems subject to this condition : Process 14, System 2]

DEVICE CONDITIONS

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A. Emission Limits

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

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : C305, C364, C460]

A72.3 The operator shall maintain this equipment to achieve a minimum overall control efficiency of 90 percent for ROG during the normal operation of the equipment it vents.

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : C305]

B. Material/Fuel Type Limits

B27.4 The operator shall not use materials containing any carcinogenic compounds identified in the SCAQMD Rule 1401, as amended 07-dec-1990.

For the purposes of this condition, carcinogenic compounds are those in Table I of the above mentioned rule, with an effective date of 07-dec-1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D333, D335]

B27.5 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 12-mar-1999.

For the purposes of this condition, toxic air contaminants (TACs) are those in Table I of the above mentioned rule, with an effective date of 12-mar-1999 or earlier.

[RULE 1401, 3-12-1999]

[Devices subject to this condition : D337]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B27.7 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 05-02-2003.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D528]

B59.4 The operator shall not use the following material(s) in this device :

Materials containing VOC.

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D300, D348, D477, D520, D521, D537, D546]

B59.5 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier except nitric acid and hydrofluoric acid

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D350, D352, D353, D354, D355]

B59.8 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except ammonia

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D374, D375, D378, D382, D383, D386, D388, D390, D391]

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NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B59.9 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/17/00 or earlier except hydrochloric acid

[RULE 1401, 3-17-2000]

[Devices subject to this condition : D397, D398]

B59.12 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 8/13/99 or earlier

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D434, D435]

B59.13 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 8/18/00 or earlier

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D450]

B59.14 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of May 2, 2003 or earlier except methanol, isopropyl alcohol, and chlorobenzene

[RULE 1401, 8-18-2000]

[Devices subject to this condition : D411, D412, D413, D414]

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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

B59.16 The operator shall not use the following material(s) in this device :

Materials containing any carcinogenic air contaminants identified in Rule 1401, Table 1 with an effective date of December 7, 1990 or earlier.

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D157]

B59.19 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table one of rule 1401 with a listing date of 8/13/99 or earlier except isopropyl alcohol, phenol, methanol and naphthalene

[RULE 1401, 8-13-1999]

[Devices subject to this condition : D357, D359]

B59.20 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except hydrochloric acid, hexavalent chrome, hydrofluoric acid, nickel sulfamate, nitric acid, and phosphoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D438]

B59.34 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except chlorobenzene, isopropyl alcohol, and methanol.

[RULE 1401, 5-2-2003]

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NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D498]

B59.36 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrochloric acid and hydrofluoric acid

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D477]

B59.38 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except chlorine

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D428, D429, D430, D431, D432, D433, D501, D502, D503]

B59.43 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D520, D521]

B59.47 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except isopropyl alcohol, methanol, phenol and naphtalene.

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

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D358, D361, D474, D476, D482]

B59.49 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except cresol, isopropyl alcohol, methanol, xylene, phenol and chlorobenzene.l

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

B59.50 The operator shall not use the following material(s) in this device :

Materials containing any toxic air contaminants identified in the Rule 1401, Table 1, with a date of listing of of 5/02/03 or earlier except nitric acid, hydrofluoric acid, cresol, xylene, isopropyl alcohol, methanol, and chlorobenzene.

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D346, D347]

B59.52 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 5/02/03 or earlier except hydrofluoric acid, hydrochloric acid, ammonia, chlorine or isopropyl alcohol

[RULE 1401, 5-2-2003]

[Devices subject to this condition : D349, D403, D404, D406, D407, D507, D508, D509, D552]

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

B59.53 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, isopropyl alcohol and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D571, D572, D573]

B59.55 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D537, D540, D595]

B59.57 The operator shall not use the following material(s) in this device :

Toxic Air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid, hydrofluoric acid and ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D348]

B59.58 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of Rule 1401 with a listing date of 3/4/05 or earlier except hydrofluoric acid or chlorine

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D584]

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

B59.59 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except ammonia

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D585]

B59.60 The operator shall not use the following material(s) in this device :

Toxic Air Contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol. chlorobenzene and formaldehyde

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D484]

B59.62 The operator shall not use the following material(s) in this device :

Toxic air contaminants in Table 1 of Rule 1401 with a listing date of 3/04/05 or earlier except xylene, cresol, and cellosolve acetate

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D587, D588, D589]

B59.63 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/04/05 or earlier except nitric acid and hydrofluoric acid.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D546]

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NORTHROP GRUMMAN SYSTEMS

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

B59.65 The operator shall not use the following material(s) in this device :

Toxic air contaminants (TACs) in table 1 of Rule 1401 with a listing date of 3/07/08 or earlier except ammonia.

Materials containing Volatile Organic Compounds (VOCs)

[**RULE 1164, 1-13-1995; RULE 1303(b)(2)-Offset, 5-10-1996;** RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 3-7-2008]

[Devices subject to this condition : D597]

B59.66 The operator shall not use the following material(s) in this device :

Toxic air contaminants in table 1 of rule 1401 with a listing date of 3/07/08 or earlier.

[RULE 1401, 3-7-2008]

[Devices subject to this condition : D596]

C. Throughput or Operating Parameter Limits

C1.15 The operator shall limit the material processed to no more than 180 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D333]

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

C1.17 The operator shall limit the material processed to no more than 93 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D335]

C1.18 The operator shall limit the material processed to no more than 430 lb(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as photoresist coatings and solvents containing VOC.

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**]

[Devices subject to this condition : D337]

C1.24 The operator shall limit the material processed to no more than 42 gallon(s) per month.

This limit shall be based on the total combined limit for equipment D411 - D414.

For the purpose of this condition, material processed shall be defined as material with a VOC content of 9.2 lbs/gal or less.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D411, D412, D413, D414]

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

C1.37 The operator shall limit the material processed to no more than 80 lb(s) in any one month.

For the purpose of this condition, material processed shall be defined as photoresist coatings (Microposit 1822 / 1813).

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; RULE 1401, 5-2-2003]

[Devices subject to this condition : D481]

C1.41 The operator shall limit the material processed to no more than 1836 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D357, D358, D359, D361 and D482.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D357, D358, D359, D361, D482]

C1.42 The operator shall limit the material processed to no more than 649 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D346 through D348, D350, D352 through D355, D481, D587 through D589..

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

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

[Devices subject to this condition : D346, D347, D348, D350, D352, D353, D354, D355, D481, D587, D588, D589]

C1.44 The operator shall limit the material processed to no more than 660 gallon(s) per month.

For the purpose of this condition, material processed shall be defined as materials containing VOC.

This limit shall be based on the total combined limit for equipment D474 and D476.

[**RULE 1303(b)(2)-Offset, 5-10-1996**]

[Devices subject to this condition : D474, D476]

C1.46 The operator shall limit the material processed to no more than 2.0 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC. The limit shall be based on the total combined limit for equipment D349 and D552.

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

[Devices subject to this condition : D349, D552]

C1.47 The operator shall limit the material processed to no more than 325 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as solvents containing VOC.

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**]

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

[Devices subject to this condition : D498]

C1.51 The operator shall limit the material processed to no more than 282 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

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

[Devices subject to this condition : D571, D572]

C1.53 The operator shall limit the material processed to no more than 2 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as material containing VOC.

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

[Devices subject to this condition : D484]

C1.55 The operator shall limit the material processed to no more than 240 in any one month.

For the purpose of this condition, material processed shall be defined as number of wafers processed in this equipment..

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

[Devices subject to this condition : D596]

C1.56 The operator shall limit the throughput to no more than 480 batch(es) in any one month.

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

[Devices subject to this condition : D597]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

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

C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 100 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C232]

C8.2 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 60 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C4]

C8.3 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 150 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating scrubbing solution.

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

[Devices subject to this condition : C6, C233]

C8.9 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 8 of the pH scale.

To comply with this condition, the operator shall monitor and record the pH as specified in condition number 90-1.

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

[Devices subject to this condition : C4, C6, C232, C233]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D. Monitoring/Testing Requirements

D29.2 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	District-approved averaging time	Simultaneous inlet and outlet

The test shall be conducted at least once during the life of the permit but no later than July 9, 2010 unless otherwise approved in writing by the District.

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

The test shall be conducted while the oxidizer 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 the permit, the minimum operating temperature specified in this permit may be increased to reflect the operating temperature during the source test.

The operator shall comply with administrative conditions NOs. 8, 9, and 10 of Section E of this facility permit

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

[Devices subject to this condition : C305, C364, C460]

D90.1 The operator shall periodically monitor the pH of the scrubbing solution according to the following specifications:

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

The operator shall use litmus paper or a portable pH analyzer to monitor the parameter.

The operator shall monitor once every day provided any equipment served by this control system is in operation.

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

[Devices subject to this condition : C4, C6, C232, C233]

E. Equipment Operation/Construction Requirements

E54.1 The operator is not required to vent this equipment to the following equipment if any of the requirements listed below are met:

Device ID: C460 [OXIDIZER, RTO, 1.5 MMBTU/HR]

Requirement number 1: On days where the total VOC emissions from semiconductor manufacturing and related operations subject to District Rule 1164 at this facility are less than 5 pounds.

[**RULE 1164, 1-13-1995**]

[Devices subject to this condition : D157]

E158.1 The operator shall maintain a continuous overflow of water from the scrubber sump to prevent build up of contamination.

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

[Devices subject to this condition : C4, C6, C232, C233]

E159.1 The operator shall maintain inspection ports which, when opened, allow the observation of the spray nozzles and the scrubbing solution being sprayed on the packing.

[**RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C4, C6, C232]

FACILITY PERMIT TO OPERATE
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

FACILITY PERMIT TO OPERATE
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The operator shall comply with the terms and conditions set forth below:

The combustion chamber temperature shall be maintained at a minimum of 1,500 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 a combustion chamber temperature of less than 1,500 degrees Fahrenheit occurs whenever the equipment it serves is in operation. The operator shall review the records of the combustion chamber 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 1,500 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken

All deviations 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
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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; 40CFR Part 64, 10-22-1997**]

[Devices subject to this condition : C305, C364, C460]

H. Applicable Rules

H23.2 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**]

[Devices subject to this condition : D337]

I. Administrative

I331.1 The conditions and requirements for this device in Section H shall take effect, and shall supersede those in Section D, when the modifications authorized in Section H are completed. The operator shall notify the AQMD when the modifications are completed.

[**RULE 202, 5-7-1976**]

[Devices subject to this condition : C232]

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
NORTHROP GRUMMAN SYSTEMS

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Source test results shall be submitted to the District no later than 30 days after the source test was conducted.

[**RULE 1164, 1-13-1995; RULE 1303(a)(1)-BACT, 5-10-1996**]

[Devices subject to this condition : C305, C364, C460]

K48.5 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number E 54- 1

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

[Devices subject to this condition : D157]

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

pH of scrubbing solution on a daily basis

flow rate of recirculating scrubbing solution on a daily basis

[**RULE 1303(a)(1)-BACT, 5-10-1996;** RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C4, C6, C232, C233]