

Application Type New Facility Type Storm Water Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

 Application No.
 PA0245259

 APS ID
 1028726

 Authorization ID
 1336592

Applicant and Facility Information

Applicant Name	Silicon Power Corp	Facility Name	Silicon Power	
Applicant Address	280 Great Valley Parkway	Facility Address	280 Great Valley Parkway	
	Malvern, PA 19355-1313		Malvern, PA 19355-1313	
Applicant Contact	Harshad Mehta	Facility Contact	William Hiltner	
Applicant Phone	(610) 407-4700	Facility Phone	(610) 407-4700	
Client ID	358157	Site ID	557289	
SIC Code	3674	Municipality	Malvern Borough	
SIC Description	Manufacturing - Semiconductors And Related Devices	County	Chester	
Date Application Receiv	ved November 30, 2020	EPA Waived?	Yes	
Date Application Accepted		If No, Reason		
Purpose of Application	New Stormwater permit application			

Summary of Review

The applicant requests issuance of an individual NPDES permit for the discharge of industrial stormwater from Silicon Power Corporation.

The facility in Malvern, PA receives and sets semiconductor chips in ceramic or epoxy inside a protective package. They also test and sort semiconductors. All operations are conducted indoors.

Outfalls 001 & 002 discharging stormwater from the site.

Outfall 001 collects stormwater from the building, parking lot and landscaped areas. Outfalls 002 collect stormwater from the leased buildings and overflow parking lot

Based on the review, the SIC code associated with the facility operation is 3674. According to the Stormwater General Permit, appendix J is applicable.

For Outfall 001: TSS and Oil and Grease are required to be monitored. Based on the sample analysis pH and COD are also included.

Outfall 002: TSS and Oil and Grease are required to be monitored. Based on the sample analysis pH and COD are also included.

Monitoring frequency is established as semi-annual consistent with the General Permit requirement.

Approve	Deny	Signatures	Date
x		Vasantha	
X		Vasantha Palakurti / Environmental Engineering Specialist	February 22, 2021
х		PravinPatel	
~		Pravin C. Patel, P.E. / Environmental Engineer Manager	02/24/2021

Summary of Review

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information								
Outfoll No. 001		Decign Flow (MCD)						
Latitude <u>40Aº 3' 25.1</u> 2	2"	Longitude	-75Aº 32' 7.42"					
Quad Name		Quad Code						
Wastewater Description:	Stormwater							
Receiving Waters Valley	/ Creek (EV, MF)	Stream Code	00991					
NHD Com ID 25980348		RMI	1.4900					
Watershed No. 3-F		Chapter 93 Class.	EV, MF					
Assessment Status	Impaired							
	CAUSE UNKNOWN, FLOW REG	GIME MODIFICATION, HA	ABITAT ALTERATIONS,					
	POLYCHLORINATED BIPHENY	'LS (PCBS), POLYCHLOF	RINATED BIPHENYLS					
Cause(s) of Impairment	(PCBS), SILTATION							
	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, SOURCE							
	UNKNOWN, SOURCE UNKNOW	VN, URBAN RUNOFF/ST	ORM SEWERS, URBAN					
Source(s) of Impairment	RUNOFF/STORM SEWERS, UF	RBAN RUNOFF/STORM S	SEWERS					
TMDL Status	Final	Name Valley and Li	ttle Valley Creeks					

Discharge, Receiving Waters and Water Supply Information								
Outfall No. <u>002</u> Latitude <u>40º 3' 2</u> Quad Name Wastewater Descriptio	25.12" on: Stormwater	Design Flow (MGD) Longitude Quad Code	 -75º 32' 7.42"					
Receiving Waters V NHD Com ID 2	/alley Creek (EV, MF) /5980348	Stream Code RMI	00991 1.4900					
Watershed No. 3	-F	Chapter 93 Class.	EV, MF					
Assessment Status Cause(s) of Impairmer	Impaired CAUSE UNKNOWN, FLOW F POLYCHLORINATED BIPHE (PCBS), SILTATION	REGIME MODIFICATION, H NYLS (PCBS), POLYCHLO	ABITAT ALTERATIONS, RINATED BIPHENYLS					
Source(s) of Impairme TMDL Status	HABITAT MODIFICATION - C UNKNOWN, SOURCE UNKN nt RUNOFF/STORM SEWERS, Final	DTHER THAN HYDROMOD OWN, URBAN RUNOFF/ST URBAN RUNOFF/STORM Name Valley and L	IFICATION, SOURCE FORM SEWERS, URBAN SEWERS .ittle Valley Creeks					

Development of Effluent Limitations

Outfall No.	002		Design Flow (MGD)		
Latitude	40° 3' 38.05"		Longitude	-75º 32' 19.36"	
Wastewater D	escription:	Stormwater			

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
рН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

For Outfall 001: TSS and Oil and Grease are required to be monitored as per the Stormwater General Permit, appendix J. Based on the sample analysis pH, COD and TSS are also included.

Outfall 002: TSS and Oil and Grease are required to be monitored Stormwater General Permit, appendix J. Based on the sample analysis pH, COD and TSS are also included.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations					Monitoring Requirements		
Baramotor	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	xxx	XXX	xxx	xxx	Report	xxx	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	ххх	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	ххх	1/6 months	Grab
Oil and Grease	XXX	xxx	XXX	xxx	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Proposed Effluent Limitations and Monitoring Requirements

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Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations					Monitoring Requirements		
Baramotor	Mass Units (Ibs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾	Required
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	xxx	XXX	xxx	XXX	Report	xxx	1/6 months	Grab
COD	xxx	XXX	xxx	XXX	Report	xxx	1/6 months	Grab
TSS	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	xxx	XXX	Report	XXX	1/6 months	Grab