

**FACT SHEET/STATEMENT OF BASIS
HEXCEL CORPORATION
RENEWAL PERMIT: DISCHARGE
UPDES PERMIT NUMBER: UT0025305
MINOR MUNICIPAL**

FACILITY CONTACTS

Person Name: Gene Barton	Person Name: Shannon Storrud
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Facility Name:	Hexcel Corporation
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Actual Address:	6800 West 5400 South

DESCRIPTION OF FACILITY

Hexcel manufactures carbon fibers, epoxy resins, uni-directional carbon graphite cloth and woven carbon graphite fiber epoxy resin impregnated cloth ("pre-preg"). The following Standard Industrial Classification (SIC) codes apply: 2824 Manmade Organic Fibers-Except Cellulosic; 2821 Plastics Materials, Synthetic Resins, and Non-vulcanizable Elastomers.

There are 12 fiber lines, several pre-preg lines, and several uni-directional cloth lines. The process of manufacturing carbon fiber begins with spools of polyacrylonitrile (PAN). PAN is strung through a series of ovens and rollers. The fiber is then washed and cooled in an ammonium bicarbonate bath and rinsed in water. Drag-out of the carbon fiber from the ammonia bicarbonate bath is a source for ammonia in the rinse water. The rinse water is constantly being filled and overflow goes to the permitted outfall. The clean fiber then goes through a sizing process. Sizing is an aqueous solution of resin that the fiber is dipped in and then dried before it is spooled and packaged for shipping. If there is any waste of the sizing solution, it goes to the sanitary sewer (Central Valley). The waste from the ammonium bicarbonate bath also goes to the sewer. There is no wastewater generated in the production of epoxy resin, uni-directional cloth, or pre-preg.

The wastewater discharged at Outfall 001 consists of carbon fiber rinse water, reverse osmosis reject water, pump sealing cooling water, cooling tower blow down, steam condensate and non-contact cooling water. These waters are collected at the point of generation and then flow via an underground pipeline to the West Ridge Golf Course (WRGC) Pond or the Utah and Salt Lake Canal. Hexcel has demonstrated that the effluent can meet the effluent permit limits without treatment, therefore, there are no treatment units within the system.

Storm water from Hexcel property flows north in a ditch onto ATK property until it is piped under a rocky/pit run base for railroad tracks that cross over ATK property. Once the storm water goes under the railroad tracks it disperses over the predominately undeveloped property and percolates into the ground.

SUMMARY OF CHANGES FROM PREVIOUS PERMIT

The last renewal permit for Hexcel Corporation specified the receiving stream as the West Ridge Golf Course (WRGC) Pond. This is a private pond used to irrigate the WRGC.

After a site visit was conducted by Division of Water Quality Staff in September 2009, it was observed that Hexcel's effluent discharges either directly to the WRGC Pond or to the Utah and Salt Lake Canal depending on the volume of the WRGC Pond. It was also observed that excess water in the WRGC Pond may be discharged to the Utah and Salt Lake Canal.

Given the fact that the WRGC Pond is a private pond and the fact that Hexcel can discharge to the Utah and Salt Lake Canal either directly or once the effluent has co-mingled with water in the pond, the Division of Water Quality made the determination that the appropriate receiving water is the Utah and Salt Lake Canal and not the WRGC. The permit was modified to reflect this change on April 1, 2010.

The receiving water, Utah and Salt Lake Canal, is designated as a Class 4 which does not have an ammonia water quality standard associated with it. Therefore, the requirement in the previous permit to monitor ammonia quarterly was not included in the renewal permit.

DISCHARGE

DESCRIPTION OF DISCHARGE

Hexcel has one discharge point, Outfall 001, that is located at Latitude 40° 39' 17.65" and Longitude 112° 02' 42.85" along the north-east boundary of Hexcel's property at approximately 5400 South and 6500 West in Salt Lake County. The effluent passes through a vault just prior to crossing Hexcel's property line on the northeast boundary. There is a V-notch weir located in the vault where flow is measured and samples are collected.

Hexcel has been reporting self-monitoring results on Discharge Monitoring Reports on a monthly basis. A summary of the last 5 years of data is attached. In the past 5 years, Hexcel has had three violations of the BOD₅ 30-day average effluent limit and two violations of the BOD₅ daily max effluent limit.

<u>Outfall</u>	<u>Description of Discharge Point</u>
001	Located at Latitude 40°39' 17.65" and Longitude 112° 02' 42.85". The discharge is located approximately 5400 South and 6500 West in Salt Lake County, Utah.

RECEIVING WATERS AND STREAM CLASSIFICATION

The final discharge is to the Utah and Salt Lake Canal which is classified as 4, *Utah administrative Code (UAC) R317-2-13*.

Class 4 -Protected for agricultural uses including irrigation of crops and stock watering.

BASIS FOR EFFLUENT LIMITATIONS

Limitations on total suspended solids (TSS), biochemical oxygen demand (BOD₅), and pH are based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. The limitation on Total Dissolved Solids (TDS) is based upon Water Quality Standards and is the same as in the previous permit. The permit limitations are:

Parameter	Effluent Limitations a/			
	Maximum Monthly Avg	Maximum Weekly Avg	Daily Minimum	Daily Maximum
Flow, MGD	0.6	NA	NA	NA
BOD ₅ , mg/L	25	35	NA	NA
TSS, mg/L	25	35	NA	NA
Total Dissolved Solids, mg/L	NA	NA	NA	1,200
pH, Standard Units	NA	NA	6.5	9.0

NA – Not Applicable

a/ See Definitions, *Part V*, of Permit for definition of terms.

SELF-MONITORING AND REPORTING REQUIREMENTS

The permit requires reports to be submitted monthly on Discharge Monitoring Report (DMR) forms due 28 days after the end of the monitoring period.

Self-Monitoring and Reporting Requirements ^a			
Parameter	Frequency	Sample Type	Units
Total Flow	Monthly	Instantaneous Measurement	MGD
BOD ₅	Monthly	Grab	mg/L
TSS	Monthly	Grab	mg/L
Total Dissolved Solids	Monthly	Grab	mg/L
pH	Monthly	Grab	SU

NA – Not Applicable

a/ See Definitions, *Part V*, of Permit for definition of terms.

STORM WATER

Storm water that drains from the Hexcel property percolates into the ground in a sparsely developed area on ATK property, north of Hexcel. The risk of storm water from Hexcel reaching surface waters after flowing over this area is very unlikely.

Since there has not been a known discharge of storm water from the facility to surface waters during the last three permit cycles, no storm water permit conditions will be required at this time. However, a storm water reopener provision will be included in the permit.

BIOMONITORING REQUIREMENTS

A nationwide effort to control toxic discharges where effluent toxicity is an existing or potential concern is regulated in accordance with the *State of Utah Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control (biomonitoring)*. Authority to require effluent biomonitoring is provided in *Permit Conditions, UAC R317-8-4.2, Permit Provisions, UAC R317-8-5.3* and *Water Quality Standards, UAC R317-2-5* and *R317 -2-7.2*.

The permittee is a minor industrial facility that discharges to either a private golf course pond or to a Class 4 water body. The receiving stream water quality monitoring data indicate no impairment of the stream and the receiving water body is not a fishery. Therefore, no WET limits and no toxicity testing requirements are included in this renewal permit. The permit will contain a toxicity limitation re-opener provision that allows for modification of the permit should additional information indicate the presence of toxicity in the effluent during this permit cycle.

PERMIT DURATION

It is recommended that this permit be effective for a duration of five (5) years.

Drafted by
Kim Shelley
Utah Division of Water Quality

PUBLIC NOTICE

Began:

Ended:

Public Noticed in the Salt Lake Tribune and Deseret News.