



SUSQUEHANNA RIVER BASIN COMMISSION

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Surface Water Withdrawal Application Pennsy Supply Calcite Quarry & Consumptive Use Application Project Summary

SRBC Pending No.: 2022-095

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

Project Sponsor

Company Name: Helix Ironwood, LLC

Address: 305 Prescott Road

State: PA

City: Lebanon

Zip Code: 17042

Contact Person: John Wolff

Title: Compliance Manager

Telephone: (717) 306-5104

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Email: john.wolff@ethosenergy.com

Requested Surface Water Withdrawal Quantity

Projected Design Year: 2038

Existing Withdrawal Quantity: 4.5(mgd)

Requested Withdrawal Quantity: 4.5(mgd)

Maximum Instantaneous Withdrawal Rate: 3125(gpm)

Estimated Daily Operation: 24(hours/day)

Requested Consumptive Use Quantity - Yes

Existing Consumptive Use: 4.5(mgd)

Requested Consumptive Use: 4.5(gpm)

Pre-Compact/Grandfathered CU: 0

Facility Location

Street Address: 305 Prescott Road
State: PA
County: Lebanon
Municipality: South Lebanon Township
Zip Code: 17042

Surface Water Withdrawal Source Information

Source Name: Pennsy Supply Calcite Quarry
Source Type: otherActive quarry ponds
Subbasin: Lower Susquehanna



2.1 Project Facility Description

Helix Ironwood, LLC is an electric power generating company requesting to renew Susquehanna River Basin Commission (SRBC) Docket No. 19980502 (modification Docket No. 19980502.2) for the Ironwood Generating Station, which is an existing 700-megawatt power plant located in South Lebanon Township, Lebanon County, Pennsylvania. The facility is located outside of the Susquehanna River Basin, within one mile east of the Basin's topographic divide. It is fueled by natural gas; it does not nor plan to use fuel oil, which was originally planned to be a secondary fuel option. The facility began commercial operation in December of 2001. No changes to the facility or current SRBC approvals are requested in this renewal application.

The plant requires up to 4.5 million gallons of water per day (gpd) for cooling tower makeup water, boiler makeup water, and routine plant maintenance. All water is used consumptively, and there is no discharge of waste or process water. The SRBC docket authorizes water withdrawal sources, consumptive use, and an out-of-basin diversion of water. The two sources of water are treated wastewater effluent from the City of Lebanon Wastewater Treatment Plant (WWTP) located within the Susquehanna River Basin along Quittapahilla Creek in North Cornwall Township, and the Pennsy Supply Company calcite quarry located within the Delaware River Basin Tulpehocken Creek Watershed in South Lebanon Township. Treated effluent from the WWTP is considered an out-of-basin diversion, and prior studies indicated that 62 percent of water extracted from the quarry dewatering process originates in the Susquehanna River Basin, which SRBC also considers a diversion. The Ironwood Generating Station is located adjacent to the south side of the Pennsy Supply Company quarry.

This application requests the following current approvals to be renewed.

- Consumptive water use of up to 4.5 mgd
- Out-of-Basin Diversion of water from the City of Lebanon WWTP and Pennsy Supply quarry combined up to 4.5 mgd
- When the facility water demands are 3.6 mgd or less, no more than 1.44 mgd of water may be diverted from the City of Lebanon WWTP, with the remaining 2.16 mgd coming from the quarry, except for emergency or required maintenance conditions.
- When the facility water demands are greater than 3.6 mgd, up to 2.16 mgd of water may be diverted from the City of Lebanon WWTP, with the remaining 2.34 mgd coming from the quarry, except as outlined below.



Renewal Application
Ironwood Generating Station
Helix Ironwood, LLC
RETTEW Project No: 111152005



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- During emergencies or required maintenance, either the City of Lebanon WWTP or the quarry may be used exclusively as the water source pursuant to related notification and time conditions in the SRBC docket.

Helix Ironwood, LLC submitted a minor modification to the SRBC on May 13, 2022 requesting that SRBC Policy No. 2021-04 titled *Fee Incentives for Withdrawal and Consumptive Use of AMD Impacted Waters and Treated Wastewater* be considered and applied to this project. This policy is applicable based on the facility's use of treated wastewater effluent from the City of Lebanon WWTP. Such use is beneficial by reducing the discharge of lesser quality waters to the Susquehanna River Basin as well as reducing the need to withdraw water from other higher quality resources in the Basin. SRBC approved the minor modification on June 29, 2022 (SRBC Docket 19980502-2). It is requested that the policy continue to be applied to this project, as well as to the SRBC project review fees for this renewal application.