



1041 Documents Related to 3.201 (Items 1-4)

For

Williams Creek Generating Station

Williams Creek Generating Station El Paso County 1041 Application

Applicant: Colorado Spring Utilities



Prepared by:

Vertex Consulting Services LLC
5825 Delmonico Drive, Suite # 320
Colorado Springs, CO 80919
303.906.8800



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Chapter 3, Article 2: Permit Applications and Procedures
Section 3.201: Application Submission Requirements

- (1) **Description of efficient water use, recycling and reuse technology the Project intends to use. Such description shall include estimated stream transit losses of water, reservoir evaporation losses, and power and energy requirements of the Project and alternatives to the Project.**

Water used for this project will be delivered through the existing SDS pipeline and, therefore, there will be no stream transit losses (see Attachment CC, Map of Southern Delivery System Raw Water Pipeline).

The facility will use simple-cycle combustion turbines, which avoid the continuous steam-cycle cooling demand associated with conventional combined-cycle generation. Water will be supplied through Springs Utilities infrastructure, metered at the facility and treated only to the quality required for the applicable plant use. Treated-water and demineralized-water storage will allow production to be matched to operating demand. Processed wastewater, turbine-wash water and oily drains will be segregated and managed through dedicated collection systems, and water will be reused where technically practicable, compatible with equipment requirements and allowed by law. Delivery through the Utilities system does not demonstrate absence of incremental stream-transit or reservoir-evaporation losses. In addition, there will be future owner-provided zero liquid discharge basins, so basin evaporation and downstream wastewater management must be included in the full water balance. Hydraulic power augmentation, inlet fogging and NOx-control water injection also require operational water; simple-cycle configuration alone does not quantify consumption. The project's electrical and pumping requirements for water treatment will be included in the facility auxiliary-load and water-balance design. The selected simple-cycle configuration reduces water demand relative to steam-cycle alternatives while providing dispatchable generation.

- (2) **Map and description of other municipal and industrial water projects and providers in the vicinity of the Project, including their capacity and existing service levels, location of intake and discharge points, service fees and rates, debt structure and service plan boundaries and reasons for and against hooking on to those facilities.**

There are no water providers in the vicinity of the project. The project will be served by constructing a service line off of the existing Southern Delivery System, which Springs Utilities is the majority owner, and treating the raw water for use at the project (see Attachment CC).

- (3) **Description of the water to be used by the Project and to the extent identified by the Director in consultation with the applicant, alternatives, including: the source, amount, the quality of such water; the applicant's right to use the water, including adjudicated decrees or determinations**

and any substitute water supply plans, and applications for decrees or determinations; proposed points of diversion and changes in the points of diversion; the existing uses of the water; adequate proof that adequate water resources have been or can and will be committed to and retained for the Project, and that applicant can and will supply the Project with water of adequate quality, quantity, and dependability; and approval by the respective Designated Ground Water Management District if applicable. If an augmentation or replacement plan for the Project has been decreed or determined or an application for such plan has been filed in the court or with the Ground Water Commission, the applicant must submit a copy of that plan or application.

The project will require less than 2 million gallons per day, 2,240 acre-feet per year, to support the operations of the plant, fire flow, and sanitary water. Springs Utilities can reliably meet 95,000 acre-feet of water demands each year with its current water rights portfolio. For the past 5 years Springs Utilities' customers have used approximately 72,000 acre-feet per year of water. Colorado Springs owns and operates sufficient water supplies to meet the demands of both customers and this project. Water will be delivered through the existing Southern Delivery System, which delivers water stored or passed through Pueblo Reservoir (see Attachment CC). The site of the project is not within any Groundwater Management District Boundaries.

(4) Loss of Agricultural Productivity

(a) Information on any agricultural water rights in the region converted to provide water for the Project, now or in the future.

Spring Utilities purchased shares in the Chilcott Ditch Company (Chilcott) in 2014 which was once used to irrigate nearby property. The Chilcott shares were adjudicated in case 2015CW3001. Water derived from the Chilcott shares will not directly serve the project; however, the water is part of Colorado Springs' water rights portfolio.

(b) Information on the amount of irrigated agricultural lands taken out of production, and a description of revegetation plans.

The property has been owned by Colorado Springs since April 1997. Prior to the purchase by the City, it was used for agricultural grazing.

(c) Economic consequences of any loss of irrigated agriculture, including loss of tax base, in the region.

There are no economic consequences of loss irrigated agriculture since the property is currently not being used for that purpose.

(d) Information as to loss of wildlife habitat, loss of topsoil, or noxious weed invasion, as a result of the transfer of water rights and subsequent dry-up of lands.

There is no intent to transfer water rights or to dry-up the land, noting that there is currently no irrigated agriculture occurring on the site and there is no known aquifer groundwater rights that could be severed from the surface estate so as to “dry-up” the property physically or in terms of associated groundwater rights.

(e) Information on impacts to agricultural head gates and water delivery systems.

There are no headgates located on the property or that would be impacted by the project. The only change to an existing water delivery system will be installation of a service line from Colorado Springs Southern Delivery System Raw Water pipeline which transfers water already owned by Springs Utilities.