



State of Utah

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Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

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April 6, 2012

Richfield Reaper
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65 W Center
P.O. Box 730
Richfield, UT 84701
Account #: 15946

RE: Legal Notice of Intent to Approve

This letter will confirm the authorization to publish the attached NOTICE in the Richfield Reaper on April 11, 2012.

Please mail the invoice and affidavit of publication to the Utah State Department of Environmental Quality, Division of Air Quality, P.O. Box 144820, Salt Lake City, Utah 84114-4820. If you have any questions contact Sharon Anderson, who may be reached at (801) 536-4013.

Sincerely,

Sharon Anderson
Utah Division of Air Quality

Enclosure

cc: Six County Association of Governments
Sevier County

NOTICE

A Notice of Intent for the following project submitted in accordance with §R307-401-1, Utah Administrative Code (UAC), has been received for consideration by the Executive Secretary, Utah Air Quality Board:

Company Name: Sevier Power Company
Location: Sevier Power Company: Power Plant – 414,332 m Easting 4,300,261 Northing, Zone 12, Sigurd, UT, Sevier County

Project Description: On September 8, 2011, Sevier Power Company (SPC) submitted a Notice of Intent (NOI) to construct and operate a 580 MW, combined-cycle, natural gas-fired power plant located near Sigurd, Utah; an attainment area for all criteria pollutants. In response to a request for additional information, SPC submitted a revision to its NOI on January 19, 2012. As proposed in this revised NOI, the plant will consist of two natural gas-fired, combustion turbines (CT); two, natural gas duct-fired, heat recovery steam generators (HRSG); a natural gas-fired auxiliary boiler; diesel emergency generator; and other associated equipment. The CT/HRSG units are dry low-NO_x units controlled with both selective catalytic reduction (SCR) and oxidation catalysts (oxy-cat). The auxiliary boiler shall be equipped with ultra-low-NO_x burners (ULNB) and flue gas recirculation (FGR). The SPC power plant shall be subject to the provisions of 40 CFR 60 Subparts A, Dc, IIII and KKKK; and 40 CFR 63 Subparts A and ZZZZ. The proposed source emissions are estimated at the following tpy values: PM₁₀ 106, PM_{2.5} (a subset of PM₁₀) 106, NO_x 168.3, SO₂ 25.7, CO 577, VOC 91.6, combined HAPs 8.5, and GHG 2,019,226.1 (expressed as CO₂e).

This source is a new major source under PSD. The proposed emissions of NO_x, PM10 and PM2.5 exceed the emission thresholds outlined in R307-406-5 and R307-410-4, and so an air quality impact analysis (AQIA) of the proposed project’s impact on federal air quality standards and air quality related values is required. The results of that analysis are as follows:

Model Predicted National Ambient Air Quality Standards (NAAQS) Concentrations

Air Pollutant	Prediction (µg/m3)	Percent NAAQS
NO ₂ 1-hour	158	84
NO ₂ Annual	31	31
PM ₁₀ 24-hour	79	53
PM _{2.5} 24-hour	23	66
PM _{2.5} Annual	14.8	98
CO 1-hour	5141	12
CO 8-hour	3291	33

Model Predicted PSD Class I Increment Concentrations

National Park Capitol Reef	Prediction	Class I SIL (significant impact level)
NO ₂ Annual	0.0001	0.1
SO ₂ 3-Hour	0.0039	1
SO ₂ 24-Hour	0.0013	0.2
SO ₂ Annual	0.0001	0.1
PM ₁₀ 24-Hour	0.0314	0.3
PM ₁₀ Annual	0.0013	0.2

Arches		
NO ₂ Annual	0.0001	0.1
SO ₂ 3-Hour	0.0023	1
SO ₂ 24-Hour	0.0011	0.2
SO ₂ Annual	0.0001	0.1
PM ₁₀ 24-Hour	0.0217	0.3
PM ₁₀ Annual	0.0011	0.2

Canyonlands		
NO ₂ Annual	0.0001	0.1
SO ₂ 3-Hour	0.0038	1
SO ₂ 24-Hour	0.0013	0.2
SO ₂ Annual	0.0001	0.1
PM ₁₀ 24-Hour	0.0276	0.3
PM ₁₀ Annual	0.0013	0.2

Bryce Canyon		
NO ₂ Annual	0	0.1
SO ₂ 3-Hour	0.0013	1
SO ₂ 24-Hour	0.0006	0.2
SO ₂ Annual	0	0.1
PM ₁₀ 24-Hour	0.0144	0.3
PM ₁₀ Annual	0.0004	0.2

Zion		
NO ₂ Annual	0	0.1
SO ₂ 3-Hour	0.0015	1
SO ₂ 24-Hour	0.0007	0.2
SO ₂ Annual	0	0.1
PM ₁₀ 24-Hour	0.0108	0.3
PM ₁₀ Annual	0.0002	0.2

Model Predicted PSD Class II Increment Concentrations

Air Pollutant	Prediction (µg/m ³)	Percent PSD
NO ₂ Annual	8	32
PM ₁₀ 24-hour	7	23
PM _{2.5} 24-hour	6.9	77
PM _{2.5} Annual	1.8	45

The Intent to Approve (ITA) proposes limitations on emissions as follows:

CT/HRSG Units Pollutant	Limit	Averaging Time
PM ₁₀ /PM _{2.5}	14 lb/hr	30-day rolling average
NO _x	2.0 ppm _{dv} @ 15% O ₂	3-hour average
CO	3.0 ppm _{dv} @ 15% O ₂	3-hour average
VOC	3.0 ppm _{dv} @ 15% O ₂	3-hour average
SO ₂ /H ₂ SO ₄	3.4 lb/hr	30-day rolling average

Auxiliary Boiler Pollutant	Limit	Averaging Time
PM ₁₀ /PM _{2.5}	0.01 lb/MMBtu	30-day rolling average
NO _x	0.017 lb/MMBtu (1.45 lb/hr)	3-hour average
CO	0.0375 lb/MMBtu	3-hour average

The completed engineering evaluation and air quality impact analysis showed that the proposed project meets the requirements of federal air quality regulations and the State air quality rules. The Executive Secretary intends to issue an Approval Order pending a 30-day public comment period. The project proposal, estimate of the effect on local air quality and draft Approval Order are available for public inspection and comment at the Utah Division of Air Quality, 195 North 1950 West, Salt Lake City, UT 84116. Written comments received by the Division at this same address on or before May 11, 2012 will be considered in making the final decision on the approval/disapproval of the proposed project. Email comments will also be accepted at jjenks@utah.gov. If anyone so requests to the Executive Secretary at the Division in writing within 15 days of publication of this notice, a hearing will be held in accordance with R307-401-7, UAC.

Date of Notice: April 11, 2012