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DRAFT

ACT/007/012
#2

UTAH DIVISION OF AIR QUALITY
NEW SOURCE PLAN REVIEW

Steven Brown
Vice President Engineering/Construction
Covol Technologies Inc.
3280 North Frontage Road
Lehi, Utah 84043

RE: Covol Technologies will operate a minor source for washing coal tailings in Wellington, Utah Carbon County, CDS: B, ATT; NSPS,

REVIEW ENGINEER: David Kopta
REVIEW TECHNICIAN: Rebecca Russell
CONSULTING FIRM: DMK Environmental Engineering

DATE: August 11, 1997

NOTICE OF INTENT DATED: July 16, 1997

PLANT CONTACT: Steven Brown

PHONE NUMBER: (801) 768-4481

FAX NUMBER (801) 768-4483

PLANT LOCATION: Erthco/Nevada Electric Investment Corporation Property Wellington, Utah
Take Highway 6 East from Wellington and travel two miles, turn right and follow road for one mile to tailings impoundment
Carbon County

UTM COORDINATES: 4,375 km. Northing; 527 km. Easting

APPROVALS:

Peer Engineer _____
Mike Beheshti

DAQ requests that a company/corporation official read the attached draft/proposed Approval Order conditions. If this person does not understand or does not agree with the conditions, the PLAN REVIEW ENGINEER - TECHNICIAN should be contacted within five days after receipt of the conditions. If this person understands and the company/corporation agrees with the Approval Order conditions, this person should sign below and return (can use FAX # 801-536-4099) within 10 days after receipt of the conditions. If the Plan Review Engineer is not contacted within 10 days, the Plan Review Engineer shall assume that the Company/Corporation official agrees with this Plan Review and will process the Plan Review for final approval. **NOTE: The Approval Order will not be issued until this signed sheet is returned and the review fees are paid.**

Applicant Contact _____
(Signature & Date)

TYPE OF IMPACT AREA

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Attainment Area Yes

Nonattainment Area

PM₁₀ No

SO₂ No

CO No

Ozone No

NSPS Yes

40 CFR Part 60, Subparts A and Y

NESHAP No

Hazardous Air Pollutants No

Hazardous Air Pollutants Major Source No

[> 10 tpy of any one Hazardous Air Pollutant (HAP) or > 25 tpy of any combination of HAPs]

New Major Source No

Major Modification No

PSD Permit No

PSD Increment No
(modeling)

Send to EPA To be determined by Peer per C.C. Patel's instructions to DMK

Operating Permit Program Yes

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Abstract

Covol Technologies has developed a patented process allowing previously abandoned coal refuse to be reclaimed and reused as commercial fuel. The proposed site contains two refuse impoundments where the small previously considered waste coal has been dumped as a slurry. Each impoundment is several acres in size. Covol will build a washing facility using their new technology to reclaim the impoundments. The material will at first be hauled by front end loaders or trucks from the impoundments to the washing plant where it will be cleaned and sold as fuel. This is the initial phase which will allow up to 40 tons per hour to be reclaimed. The second phase will allow the removal of the refuse coal using dredging bars to pump the material to the washing plant. Full capacity will be 120 tons per hour. This plant is located between Price and Wellington, Utah in Carbon County. This area is considered to be an attainment area for all criteria pollutants. New Source Performance Standards subparts A and Y apply to this source. Title V applies to this source. This is a minor source.

Newspaper Notice

Covol Technologies has developed a patented process for reclaiming coal tailings impoundments. Covol will be installing this new facility between Price and Wellington in Carbon County. This area is considered an attainment area for all criteria pollutants. New Source Performance Standards subpart A and Y apply to this source. Title V applies to this source. There will be a thirty day public comment period.

I. DESCRIPTION OF PROPOSAL

Covol Technologies intends to build a wash plant that will clean refuse coal, that smaller than 1/4", and sell it as fuel. The raw material, the refuse coal, is currently in a tailing impoundment. The process of removing the refuse to the washing plant will be in two phases. Phase 1 will require the removal by front end loaders and haul trucks. The material will be conveyed to the processing plant. At the plant the material will undergo a scalping/desliming operation using wet screening with large amounts of water. The larger material and trash will be removed and the material will go through a centrifuge to remove the high moisture content. The cleaned coal will be transferred to a storage pile and then sold for fuel and transferred off-site. This phase will allow 40 tons per hour to be reclaimed. When the next phase is installed the removal will be in slurry form. The impoundment will be flooded and dredging bars and pumps will be used to move the material to the processing plant. This phase will have a maximum production rate of 120 tons per hour.

II. EMISSION SUMMARY

The emissions from Covol Technologies Coal Tailings Preparation Plant will be as follows:

<u>Pollutant</u>	<u>Current Emissions tons/year</u>	<u>Emission Increases tons/year</u>	<u>Total Emissions tons/year</u>
Particulate	0.00	6.91	6.91
PM ₁₀	0.00	3.74	3.74
SO ₂	0.00	1.53	1.53
NO _x	0.00	16.46	16.46
CO	0.00	6.67	6.67
VOC	0.00	2.45	2.45