



creating solutions for today's environment

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Services to Electric Energy Providers

JBR Environmental Consultants, Inc. (JBR) has over 20 years of specialized work experience with the electric power industry. We have worked at over 70 electric-power generating stations and hundreds of transmission and distribution facilities. Our historical client list includes regulated and non-regulated power providers from small rural companies to the largest utilities in the West. This experience gives us a thorough understanding of operational and engineering constraints, as well as public concerns and ways to address them.

Project Experience

Hot Sulphur Springs Geothermal Project, Independence Valley, NV

The Hot Sulphur Springs Geothermal Project in northeastern Nevada consists of exploration activity, drilling of production and injection wells, permitting for an initial 15 MW power plant, and construction of a 24-mile transmission line, including an Environmental Assessment for the transmission line. JBR obtained the necessary environmental permits; conducted baseline investigations; coordinated with federal, state, and local agencies; completed a groundwater resources investigation to find cooling water sources; monitored and managed drilling activities for the groundwater investigation; and provided support for a variety of other activities at the site.



Facilities Served

- Pulverized coal plants up to 1,800 MW
- Hydroelectric plants up to 728 MW
- Dry steam, flash, and binary geothermal plants up to 32 MW
- Simple and combined cycle gas plants up to 540 MW
- Solar plants up to 64 MW
- Wind farms
- Diesel and cogeneration plants
- Transmission lines, switchyards, and substations from 69 kV to 500 kV
- Distribution lines, substations, and service centers
- Offices, warehouses, and maintenance shops

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Project Experience

NV Energy ON Line DSEIS (Formerly Ely Energy Center Project), NV

JBR prepared a Draft Supplemental Environmental Impact Statement (DSEIS) for the One Nevada 500 kV Transmission Line (ON Line Project), distributed in November 2009. The project would include construction of a new 500/345 kV substation, a 236-mile long 500 kV transmission line and fiber optic communication facilities, a loop-in of the existing Falcon-Gonder 345 kV transmission line, expansion of two existing substations, and associated access roads. These electrical and communication facilities were previously proposed as components of the postponed Ely Energy Center (EEC) Project. JBR originally evaluated resources on approximately 45,000 acres of land potentially impacted by the proposed project, performing all related baseline studies for the SEIS, including wildlife, threatened and endangered species, wetlands, vegetation, visual, noise, and water resources for the proponent. JBR is currently preparing the Final Supplemental EIS which should be distributed in late 2010.

Solid & Hazardous Waste Management Plan for a Confidential Utility

JBR worked closely with corporate and facility professionals to develop and implement compliant Solid and Hazardous Waste Management Plans (SHWMPs) for eight coal-fired and seven gas-fired generation facilities located in the Rocky Mountain West. As a first step, JBR developed a template SHWMP for a coal-fired facility and one for a gas turbine facility. JBR then provided third-party review of the remaining plans produced at each facility. These comprehensive plans addressed all the necessary steps required for an applicable and functional SHWMP, including:

- Reviewing site-specific waste characterization and management procedures
- Reviewing and improving personnel training programs
- Updating waste characterization, record keeping and reporting procedures
- Providing site-specific layouts, drawings, and process flow diagrams
- Reviewing and improving waste streams handling methods
- Developing preparedness and prevention contingency plans

Once the template plans were developed, JBR provided input and further waste characterization for each of the remaining 13 generation plants. Each facility had exclusive challenges and specific contingencies that required unique attention in order to have a site-specific functional plan.

Electric Energy Related Services

Baseline Studies

- Soils, vegetation, and wetlands
- Wildlife
- Threatened, endangered, and special status species
- Surface water and groundwater
- Visual resources
- Noise
- Aquatic resources

Permitting

- NEPA/CEQA/UEPA documents
- Zoning and land-use applications
- Air emission inventories, modeling, and permits
- Landfills, wastewater disposal ponds, and NPDES permits
- Transmission lines, switchyards, and substation rights-of-way
- SWPPP, SPCC, and emergency response plans

Construction Monitoring

- Construction, operations, and maintenance plans
- Noise
- Fugitive dust
- Stormwater, sediment control, wetlands, and Waters of the US
- Threatened, endangered, and special status species
- Soil handling and reclamation success

Hazardous Materials

- Solid and hazardous waste management programs
- RCRA and DOT audits and training
- Sampling, manifesting, shipping, and disposal of wastes
- Spill response, site investigations, and remediation

Audits, Compliance Assistance, & Guidance Manuals

- Compliance audits
- Permit renewals and modifications
- Assistance with responses to enforcement actions
- Environmental training programs
- Mitigation plans for wetlands, Waters of the US, and wildlife impacts