
	LONGVIEW POWER PLANT POLICY AND PROCEDURES MANUAL		
	Title: <p style="text-align: center;">Plant Chemist</p>		
Procedure Number: L1 - ADM - 1JD - PCH - R	Rev. Number: 0	Rev. Date: 4-20-2009	Page Number: 1 of 5

[Job Summary \(Why does job exist?\)](#)

This Plant Chemist reports directly to the Engineering Manager and is responsible for all Plant Chemistry related duties required by the Longview Power Project. The Plant Chemist will develop, direct, monitor, analyze, and maintain the Plant Chemistry program. Duties of this person will include but not limited to establishing, analyzing, and maintaining the Condensate, Feed water, Boiler Water, On site fuel & Ash, Cooling Water and Steam chemical parameters, SO₂ Wet Scrubber Chemistry Program, Incoming Water Treatment Program, and all Plant Effluent and Discharge Waters. This person will develop analyzing procedures, set frequency of sampling, provide leadership to chemical technicians, and will use chemical engineering principals to provide technical support for the Longview 700 MW Supercritical Coal Fired Generating Station.

[ESSENTIAL DUTIES AND RESPONSIBILITIES](#)

- Provide Supervision to 3 assigned Chemical Technicians for the facility.
- Develop quality sampling, analyzing, and corrective action procedures to the various Plant Water / Sewage, FGD. Limestone, Steam Cycles and all related processes.
- Develop quality sampling, analyzing, and corrective action procedures for the SO₂ Wet Scrubber System and all related processes.
- Develop implement procedure for Fuel & Ash sampling and analyzing.
- Develop, implement, and monitor all reporting procedures for all chemical results.
- Develop, implement, and monitor all training and employee development per policies.
- Develop other sampling processes for Lubricating Oils, Coal, Ashes, Limestone, Slurries, Gases, and others.
- Develop, implement, and maintain a database to record all chemical and sampling results for analysis, review, and predictions for short, mid, and long-term lifecycles of the different plant processes.
- Develop Operating, Abnormal, & Emergency Procedures to accommodate, but not limited to Plant Water systems, Sewage Systems, Aqueous Ammonia, Limestone products, Chemical deliveries, etc.
- Comply with the obligations of all permits including Federal, State, and Local regulations.
- Review and Specify Systems, Components, Modifications, and Performance of each.
- Apply Chemical Engineering principals to ensure all processes meet design requirements.
- Provide assistance, technical information, and direction to Longview Power's personnel.
- Provide feedback to other personnel regarding failures, problem resolution, and lessons learned.
- Diagnose faulty operations, maintenance, and process procedures and implement corrections.
- Conduct tests that analyses Design, Feasibility, Operation, and Performance of systems, components, and equipment as it relates to the chemical processes.
- Coordinate regular periodic plant audits to ensure that proper regulatory plans are in place and updated as needed.
- Develop Boiler tube failure analysis Program & Flow accelerated corrosion programs.
- Coordinate Chemical deliveries & Dematerialized Water Truck deliveries when necessary.

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[Job Requirements \(Education, Experience, Knowledge, Skills\)](#)

- A Bachelor's degree in Chemical Science or Engineering is required.
- A minimum of 5 years experience in steam, electric, or process plant operations of which, at least 2 years have been in the coal-fired generating segment.
- Extensive experience in the use of personal computers and numerous software applications such as Excel, Word, MS Outlook, Powerpoint, Access, etc.
- Ability to productively work independently and as an overall integral team member.
- Must have strong communication both written and verbal skills and the ability to effectively organize and facilitate process teams to implement facility improvements.
- Ability to handle quick changing situations under stress and to work extended hours on short notice if and when required.

[SUPERVISORY RESPONSIBILITIES](#)

Does this job have supervisory responsibilities? Yes

Leadership:

Supervises/manages/directs the selection, training, development, and appraisal of personnel.


Are there non-supervisory employees who report directly to this job? Yes

How many non-supervisory employees are supervised by this job? 3

Are there subordinate supervisors reporting to this job? No

[OTHER DUTIES AND RESPONSIBILITIES](#)

- Comply with all Safety & Environmental policies, practices and procedures.
- Develop communication protocol for chemical results and actions to other departments and / or personnel to improve the programs.
- Ensure MSDS (Material Safety Data Sheets) are available and understood by all personnel involved, directly or indirectly, with each substance.
- Participate in proactive team efforts to achieve departmental and company goals.
- Perform other duties as assigned.
- Provide leadership to others through example and sharing of knowledge/skill.
- Ability to review, recommends, and communicates in a very high level of detail.
- Stay current on Chemistry principals, technology, laws, and standards as they apply to Longview Power.
- Support Longview Power business development activities as needed.

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EDUCATION and EXPERIENCE

Level of education and experience needed to successfully accomplish the essential duties of this job.

- Bachelor's degree (B. A.) from four-year College or university. A minimum of 5 years experience in steam, electric, or process plant operations of which, at least 2 years have been in the coal-fired generating segment.

LANGUAGE SKILLS

Level of language (ability to read, write, and speak) needed to successfully accomplish the essential duties of this job.

Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures, or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and the general public.

MATHEMATICAL SKILLS

Level of mathematical skills and abilities needed to successfully accomplish the essential duties of this job.

Ability to apply advanced mathematical concepts such as exponents, logarithms, quadratic equations, and permutations. Ability to apply mathematical operations to such tasks as frequency distribution, determination of test reliability and validity, analysis of variance, correlation techniques, sampling theory, and factor analysis.

REASONING ABILITY

Level of reasoning skills and abilities needed to successfully accomplish the essential duties of this job.

Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

COMPUTER OPERATIONS



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Proficient personal computer skills including electronic mail, record keeping, routine database activity, word processing, spreadsheet, graphics, etc.

PLANNING/ORGANIZATION

Prioritizes, organizes, and delegates assignments.

CERTIFICATES, LICENSES, REGISTRATIONS

Licenses, certificates, or registrations that are required to perform the essential duties of this job.

Valid Drivers License


PHYSICAL/ENVIRONMENTAL DEMANDS

How much on-the-job time is spent in the following physical activities?

	<u>Rare</u>	<u>Occasional</u>	<u>Frequent</u>
Standing	___	___	<u>X</u>
Walking	___	___	<u>X</u>
Sitting	___	___	<u>X</u>
Using hands to finger, handle, or feel	___	___	<u>X</u>
Reaching with hands and arms	___	___	<u>X</u>
Climbing or balancing	___	<u>X</u>	___
Stooping, kneeling, crouching, or crawling	___	<u>X</u>	___
Talking or hearing	___	___	<u>X</u>
Tasting or smelling	___	<u>X</u>	___
Other: Driving	___	___	<u>X</u>
Other: Computer Work	___	___	<u>X</u>
Other: Respirator Use	___	<u>X</u>	___

Does this job require that weight be lifted or force be exerted? If so, how much and how often?

Up to 10 lbs	___	___	<u>X</u>
Up to 25 lbs	___	___	<u>X</u>
Up to 50 lbs	___	<u>X</u>	___

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WORKING CONDITIONS

Well-lighted, heated and/or air-conditioned indoor office/shop environment with adequate ventilation.

	<u>Rare</u>	<u>Occasional</u>	<u>Frequent</u>
Wet or humid conditions (non-weather)	—	<u>X</u>	—
Work near moving mechanical parts	—	<u>X</u>	—
Work in high precarious places	—	<u>X</u>	—
Fumes or airborne particles	—	<u>X</u>	—
Toxic or caustic chemicals	—	<u>X</u>	—
Outdoor weather conditions	<u>X</u>	—	—
Extreme cold (non-weather)	<u>X</u>	—	—
Extreme heat (non-weather)	—	<u>X</u>	—
Risk of electrical shock	<u>X</u>	—	—
Work with explosives	—	—	—
Risk of radiation	<u>X</u>	—	—
Vibration	<u>X</u>	—	—

How much noise is typical for the work environment of this job?

Loud (examples: metal can manufacturing department, large earth-moving equipment)

TRAVEL

Minimal overnight travel (up to 10%) by land and/or air.