Northside Generating Station

Limestone Valve Replacement

JEA Northside Generating Station

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Background

JEA owns and operates two CFB boilers that use limestone to assist with sulfur capture. The limestone system has multiple valves that will need to be replaced as part of a pipe replacement project.

Solicitation

This is a request for purchase of twelve 10” and twelve 12” to replace valves currently in service. The current valves are knife gate with bonnets that have carbon steel bodies and stainless steel internals. The plant is requesting to replace these valves with a set that meets the minimum requirements listed below. All valves shall be designed to operate in an abrasive environment, specifically limestone. Valves shall be provided with end of travel limit switches. A detailed drawing and list of recommended spare parts shall be provided with the valve purchase.

Minimum Requirements

Valves shall be fabricated with carbon steel bodies and 304 stainless steel internals. Valves shall have a design temperature of 700°F and an ANSI class 150 bolt pattern. Valves shall not be of bonnet design, as the plant has not had success with this style in the environment in which they will be in. The 10” valves shall be of a knife gate design. The 12” valves shall be of a knife gate o-port design with an actuated hydraulic cylinder. Both valves have a 4” flange to flange measurement. Packing shall be Garlock PM6 (or equivalent) or better and packing seal o-rings shall be viton. Limit switches shall have two N.O and two N.C contacts (NEMA 4), and ½” NPT female conduit connection.