

Northside Generating Station Limestone Valve Replacement

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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 250°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 valves shall be of a knife gate design. JEA would prefer that the 12" valves have an actuated hydraulic cylinder, but it is not required. The only other acceptable option, if not hydraulic cylinder design for the 12" valves, will be manual operated design. 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.

Schedule Limitations

The proposed valves will be required to be installed during scheduled outages for Units 1 and 2. In order to meet the installation windows for each Unit Outage, the table below defines required delivery dates for all valves:

Item	Unit Outage Dates	Required Delivery By
(6) 10" Valves	U2: 10/02/24 – 11/02/24	09/20/24
(6) 12" Valves		
(6) 10" Valves	U1: 03/01/25 – 04/14/25	02/14/25
(6) 12" Valves		