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# Addendum No. 1

## Steel Pipe Purchase Fleish Penstock Replacement

TMWA Bid No. 2016-020  
June 17, 2016

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule remain the same.

### QUESTIONS AND RESPONSES

**Question No. 1:** Reference Specification Section 02523 Paragraph 2.2.A: The specification requires pipe to be spiral welded. However, for the 60-inch pipe there is very little footage (approx. 15-feet) and spiral welding not practical/economical for this section. Please confirm that rolled and welded pipe is acceptable for the short run of 60-inch pipe.

**Response to Question No. 1:** Rolled and welded steel pipe is acceptable for the 60 inch pipe.

**Question No. 2:** Reference Specification Section 02523 Paragraph 2.1.A.1.a: The specification provides a steel coil specification for pipe. Please confirm that A572 grade 50 steel plate is acceptable for use on rolled and welded pipe and fabricated items (i.e. Reducer, outlet reinforcements, and rings)?

**Response No. 2:** A572 grade 50 steel plate is acceptable for use on rolled and welded pipe and fabricated items.

**Question No. 3:** Please provide the field test pressure.

**Response to Question No. 3:** The pipe will not be field pressure tested. All double welded lap joints and butt welded strap joints will be air tested in the field per AWWA C206. All field welds will be visually inspected per ANSI/AWS D1.1 Table 6.1. The normal operating pressure for the pipe is 86 psi (51 psi static plus 35 psi recurring surge) with an occasional surge pressure of 121 psi (51 psi static plus 70 psi occasional surge).

**Question No. 4:** Reference Project Detail B/C2 Piece #9: Please clarify if the 1.7" diameter holes need to be threaded (for flow sensor connection) or if they are simply straight holes of specified diameter (no threads).

**Response to Question No. 4:** The flow meter sensor holes are straight, and do not need to be threaded.

**Question No. 5:** Reference Material List on Drawing C2: Piece Numbers 5 and 10 are longer than 20' lengths. Can we reduce these to 20' lengths and lengthen the adjacent elbows to accommodate the extra lengths? (This will allow us to run 20-foot lengths off the mill and take out a few extra cuts without changing the joint count and will be more economical.)

**Response to Question No. 5:** Yes.

**Question No. 6:** Please confirm that ASTM A53 Grade B Schedule 40 pipe is acceptable for use on all outlets.

**Response to Question No. 6:** ASTM A53 Grade B Schedule 40 pipe is acceptable for use on all outlets.

**Question No. 7:** What are the requirements for the Bolt, Nut & Gasket Kit on the manway? (Material & grade.)

**Response to Question No. 7:** Bolts shall be carbon steel, ASTM A307 grade B with ASTM A563 grade A heavy hex nuts per AWWA C207. Flange gasket shall be a ring type 1/16 inch thick non asbestos suitable for potable water service with a gasket yield pressure of 3000 psi and suitable for a maximum seating pressure of 15,000 psi. Bolts, nuts and gaskets shall comply with applicable sections of AWWA C207.

**Question No. 8:** Is ASTM A1018 SS grade 36 steel coil and A36 steel plate an acceptable alternative to the specified ASTM 1018 HSLAS gr45 steel coil for penstock pipe manufacture?

Preliminary indications from the major steel mills indicate that the earliest available deliveries for fresh rolled A1018 HSLAS for an order placed this week are late August/early September. Unusually long steel lead times are jeopardizing the timely manufacture and delivery of pipe for this project. Sufficient quantities of A1018 SS gr36 are readily available at the places of pipe manufacture and at steel service centers. Grade 36 SS appears suitable for this application. Allowing A1018 SS gr36 as an alternative to the specified HSLAS will help ensure timely delivery of the pipe.

**Answer to Question No. 8:** A1018 SS gr36 steel will be allowed as an alternative to the specified HSLAS.

**END OF ADDENDUM No. 1**