

RFI 96

Project: COOLEY LABORATORY RENOVATION
Job: 3146 COOLEY LAB, PPA# 10-0023
Customer: STOFMT MSU BOZEMAN

Issued To: CONSTRUCTION MANAGEMENT SERV.
P.O. BOX 7274
BOZEMAN, MT 59715

POTENTIAL IMPACTS
Cost Impact: Yes
Schedule Impact: No

Attention: DONALD J. PLATISHA
Phone/Fax: 406 585-0611 / 406 585-2698

Coordination copies to:

Item: 1/3rd 2/3rd HWC 1&2 Type: MECH
Reference: M0.6 Spec. Section:
Attachments: Valve Schedule

Description of Request

QUESTION:

The steam piping sizes for the 1/3rd-2/3rd arrangement on HWC-1&2 are currently one pipe size smaller than the control valves. Based off of the information on the schedule (M0.6) we sized the valves for a total flow rate of 6,605 lbs/hr with 5 psig at the inlet. This equated to 3" (1/3rd) and 4" (2/3rd) control valves. See included steam valve schedule for further details.

We believe the two options at this point are to either upsize the steam piping or install the current control valves onto the smaller piping. Providing smaller control valves is not an option as they will not be able to meet the required flow rates of the system based on the design information on M0.6.

Please advise.

Electro Controls

Respond By: 03/14/12 By: TIM THOLT

Response

The valves have been procured as 3" and 4" and are on site. Increase the size of the steam piping to match that of the valve sizing. Since the steam diagram on the plans now indicates a 2" and a 3", increase the size of the 2" line and the control valve isolation valves to 4" size.

Signed: Dave Broquist, GPD

Date: 30 March, 2012

Proceed as Indicated:

Date:

Owner
Authorized
Representativ

Project: MSU - Cooley Lab Renovation
 ECI Job#: 23.3743
 Section: 15900

Office: Missoula
 Engineer: GPD, Inc. (M. Bender)
 Date: February 7th, 2012

Item:	Tag#	Description	Pipe Size (in)	Valve Size (in)	Design Inlet (psig)	Design Steam Flow (lbs/hr)	Design Pressure Ratio	Suggested Cv	Valve Part No.	Actuator Part No.	Valve/Actuator Assembly No.	Actual Cv	Actual Maximum Flow
1	HWC-1	1/3rd Valve	2	3	5	2202	42%	78.3	599-06051	SKD62U	274-06051	100	2814
2	HWC-1	2/3rd Valve	3	4	5	4403	42%	156.5	599-06052	SKC62U	294-06052	160	4502
3	HWC-2	1/3rd Valve	2	3	5	2202	42%	78.3	599-06051	SKD62U	274-06051	100	2814
4	HWC-2	2/3rd Valve	3	4	5	4403	42%	156.5	599-06052	SKC62U	294-06052	160	4502
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Note:
 1. Currently valve sizes are 1 size bigger than published pipe sizes (M3.1).
 2.
 3.