

From: [REDACTED]  
 To: [REDACTED]  
 Cc: [REDACTED]  
 Subject: RE: PD1194R003 - Merrimack - FW: Merrimack - Additional Documentation Request - Table Depicting Five Columns for Sensing Line Info  
 Date: Friday, May 31, 2019 11:00:59 AM

[REDACTED], per your attached request, please find the attached table and the following answers to yours and [REDACTED] questions

Sources of Sensing Line Information and Select Regulator Station Documentation				
Document or Source of Information	Location	Description	Update Interval	Responsible for Updating
Critical Valve Book (contains sensing line information)	Lawrence Operations Center	Identifies the location of critical valves in relation to other system components, including regulator stations and sensing lines where applicable.	As needed	Engineering
Work Done Files (contains sensing line information)	Lawrence Operations Center	Compilation by town and street of records and as-built sketches of work done on system, including sensing line installations, replacements, and relocations.	As work is done	Distribution, Construction, Operations
Historical Maps (contains sensing line information)	Lawrence Operations Center	System maps pre-dating implementation of GIS. Certain historical maps include sensing line locations.	Historical	N/A
Capital Close Out Files (contains sensing line information)	Lawrence Operations Center	As-built drawings and other project documentation from inspector work order packets for capital projects, including as-built drawings of project sensing line installations, replacements, relocations.	As projects are closed out	Construction, Capital Close Out
WMS Docs (contains sensing line information)	WMS Docs Database	Electronic version of Capital Close Out files, including as-built drawings of project sensing line installations, replacements, relocations.	As projects are closed out	Capital Close Out
Measurement & Regulation Regulator Books (contains sensing line information)	Measurement & Regulation Technician Vehicles	Books maintained for reference by M&R in the field. The Books contain diagrams depicting the piping configuration around regulator stations, including the location of sensing lines.	As needed	M&R
Regulator Station Inspection Record	Regulator Station	Record of station inspections.	Upon inspection	M&R
Regulator Station Inventory Record	Regulator Station	Record of station attributes, major components, station shut off valve.	As inventory changes	M&R
Station Isometric Drawing	Regulator Station	Depicts direction of flow through regulator station and sequence of major station components.	As needed	Engineering
GIS Map Printout	Regulator Station	Geographic Information System ("GIS") record identifying location of regulator station's critical valve in relation to regulator station, station's inlet and outlet piping, and gas mains in the vicinity of station.	As needed	Capital Close Out

[REDACTED]  
 Which documents are being kept current, vs. those that are being phased out and/or incorporated into the GIS.

o All sensing line location information for low pressure regulator stations has been verified and incorporated into GIS. Even so, sensing line information continues to be updated in the Work Done files, Capital Close Out files, and WMS Docs.

What is meant by 'field' documents? What is the purpose of these documents as opposed to using the GIS? What is the best guess with respect to what [REDACTED] was referring to? Why would these documents not be up to date?

o The documents that are housed at the regulator stations may be what [REDACTED] was referring to at points in his testimony at which he discussed documents in the field. These documents contain detailed and specialized information pertaining to regulator station attributes, major components, shut off valves, flow, metrics, and inspections. They are resource materials that M&R can access onsite when inspecting or working in the regulator station itself to get a detailed snapshot of a regulator station's history, structure, attributes, metrics, and flow. [REDACTED] testimony does not state that this documentation was outdated. Rather, he appears to indicate that this documentation does not include all documentation that M&R has at its disposal, including the full scope of sensing line and valve location information contained in the M&R Regulator Station Books. This regulator station documentation is distinct from the GIS distribution system maps, although printouts of GIS maps of the regulator station are often included as duplicate documentation of a station's critical valves.

What instructions does NiSource provide employees with respect to how to find information about sensing lines? If this is only on the job training, please state so.

o CMA Engineering, Construction, and M&R personnel know how to obtain information about sensing line locations. In addition to the multiple documentary resources containing sensing line location information, M&R personnel are routinely consulted by Engineering and Construction when sensing line location information is needed. Indeed, even [REDACTED] a CMA contracted inspector, knew where and how to readily access sensing line information pertaining to the South Union Street project.

Please let me know if you have any questions.

[REDACTED]  
 VP, Engineering and Pipeline Safety  
 NiSource, Inc.

[REDACTED]  
 [REDACTED]  
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