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Purpose

The purpose of this document is to provide clear direction for the application and interpretation of RGT Measurement Policy requirements regarding existing and new downstream taps..

Responsibility

Responsibility for ensuring this specification is followed resides with the designer, owner and operator of Receipt Point measurement facilities on Spectra Energy Transmission (SET) West RGT systems.

Specification

The RGT Measurement policy states: "Gas returned, delivered or vented from taps downstream of the Receipt Point meter must be measured separately with equipment adhering to the requirements of this Policy unless otherwise allowed by the RGT Downstream Tap Specification in the Appendix".

The policy furthermore states: "Existing downstream taps that are not metered shall be plugged if 33.4 mm (NPS 1) or smaller in outside diameter and plugged and welded if larger than 33.4 mm in outside diameter. Exceptions to this requirement, for the depressurization of small pipe segments, may be granted upon review by SET".

The general direction provided is that NPS 1 and smaller taps located downstream of the sales meter run, that are unconnected to any other piping, are acceptable if they are plugged and the valve sealed closed. Un-metered taps for return fuel gas, flaring, etc. must be located upstream of the Receipt Point meter.

Guidelines

The following examples are presented to illustrate allowable downstream taps and solutions for specific cases where they are not allowed. Other cases not noted below will be evaluated and approved by Measurement Technical Services on a case by case basis.

1. Un-metered vent/flare line downstream of the RP sales meter:

Regardless of whether the flow is controlled manually or automatically, the vent/flare line should be relocated upstream of the meter. If operational conditions require a vent downstream of the meter to depressurize piping, such a tap should be no larger than NPS 1 and must be secured closed with an SET seal. The purpose of this tap must be noted on the P&ID's and SET inspection report.

2. Bypass valves around sales gas check valves:

Will only be allowed where operational conditions require such a bypass. It should be no larger than NPS 1 and must be secured closed with an SET seal. The purpose of this tap must be noted on the P&ID's and SET inspection report.

Note: Only one downstream tap as identified in 1) or 2) above shall be allowed for a specific meter installation. Where both gas and liquid meters exist, every effort to combine the vent or bypass into single tap must be made.

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3. Blind flanged tees downstream of the RP sales meter:
Will be allowed providing there is no isolation valve between the tee and blind flange.
4. Chemical Injection taps downstream of the RP sales meter:
Will be allowed providing that a check valve, permitting injection only, is installed between the tap and isolation valve. The purpose of this tap must be noted on the P&ID's and SET inspection report.
5. Taps for gauges and transmitters downstream of the RP sales meter:
Will be allowed providing they are NPS 1 or smaller if threaded, or NPS 2 or smaller if flanged (for sour service safety issues) with a welded NPS 1 or smaller nipple or reducing hub on the flange. The purpose of these taps must be noted on the P&ID's and SET inspection report.
6. Taps on pigging barrels downstream of the RP sales meter:
Kicker and vent taps on pigging barrels will be allowed providing they are NPS 2 or smaller. Receipt Point Operators may be required to remove any extra kicker/vent taps during their next outage. Until then the valves must be sealed closed. For new installations, only two NPS 2 or smaller vents per barrel will be allowed. Pigging barrel gauge and transmitter taps fall under 5), as above.

Exceptions

The specifications stated in this document are minimum requirements; additional specifications may be necessary when circumstances warrant. Exemptions from these specifications are not permitted without the written permission from SET Measurement Technical Services.

Revision History

Rev-0: January 31, 2007	KC	Original Issue - Approved by K. Checkwitch & G. Parmar