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Subject: ISM Systems in Manifolder Situations

As explained in VMI Technical Bulletins 060200, 060700, and 070704, when two or more turbines are manifolded into a single line, precautions must be taken to alternate or stage the submersible authorizations. STP staging can be accomplished using VMI's ISM-4080 & ISM-4081 Integrated Shutdown Modules. The VMI ISM-4080 MC Master Controller has the ability to alternate or stage STP authorizations, the software is sophisticated enough that this Tech Bulletin does not apply to the ISM-4080MC.

When using the ISM-4080 or ISM-4081 in a manifolded turbine application, only one shutdown module should be used to perform line repressurization functions.

What does this mean?

Only the lead ISM should be programmed for pump run duration time. For example: two STPs are manifolded together into a line with a bleedback measurement of 300 ml, each STP has an LD-2000 and an ISM-4080. Delay timer settings for both ISM-4080s (or ISM-4081s) should be set at 5 minutes. Duration timer on the lead ISM-4080 (or ISM-4081) should be set to 2 minutes; duration timer for the second ISM-4080 should be set to 0 minutes. Setting the duration timer to 0 minutes on the second ISM disables the line Repressurization function.

Why does it matter?

Just as per a normal authorization, we only want one submersible to start and one leak detector to check the line, during the auto-repressurization cycle of the ISM units, we only want one submersible starting and checking the line.

Please contact me if you have any questions.

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