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TECHNICAL NOTES
210-VI
AMENDMENT MT-14

SUBJECT: ENG--Distribution of Variable Speed Drive (VSD) for Irrigation Pumping; Montana VSD Stockwater Examples (Attachment 1); and Variable Speed Drive - Economic Comparison Excel Spreadsheet; an updated Montana Tabulation Sheet.

TO: All Offices

Effective Date: This is effective upon receipt.

Explanation of Material: In today's world, many irrigation and stockwater pumps are being paired with a Variable Speed Drive (VSD), or Variable Frequency Drive to make existing systems more energy efficient. Clare Prestwich, Irrigation Engineer from the National Water and Climate Center drafted up a VSD document with examples that will eventually be transmitted from NHQ. Until then, use this document as a reference any time you are working with an irrigation or stockwater pump which will be paired with a VSD unit.

Filing Instructions:

1. Remove and replace the updated Montana Tabulation Sheet.
<https://web-dev.sc.egov.usda.gov/mt/technical/eng/Technotes/technotes.html>
2. After Montana Engineering Technical Note MT-13 insert MT-14, Variable Speed Drive (VSD) for Irrigation Pumping.
3. After Montana Engineering Technical Note MT-14, insert Montana VSD Stockwater Examples, MT-14(Attachment 1).
4. After Montana Engineering Technical Note MT-14(Attachment 1), retrieve the Variable Speed Drive - Economic Comparison excel worksheet from the Montana Engineering Spreadsheet List at: <http://www.mt.nrcs.usda.gov/technical/eng/software.html>

If you have any questions, please call Randy Pierce, Irrigation Engineer at (406) 587-6860.

/s/ by Steve Becker (1/26/2010) / rg

STEVE BECKER
State Conservation Engineer

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