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Die Schweiz Und Die Schweizer

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The overall process used standard chemical engineering design practice from the chemical industry, to maximize recovery of excess heat and generate the required steam, minimizing natural gas consumption. A proprietary design for the gasifier resolves earlier problems with indirect feed heating, provides the heat of reaction to convert wood (cellulose and lignin) to syngas, without having to burn the wood or straw and dilute the syngas with nitrogen. This, plus pressurized operation, results in smaller gas volumes and much smaller equipment. Even though this results in higher unit costs of high-pressure vessels and piping, the overall effect is lower total equipment costs. Another critical design feature is the use of multiple, redundant gas cleaning operations, to protect the downstream systems (e. g. catalysts) in the event of gasifier malfunctions. C. Detailed Process Description Based on an abbreviated flow sheet received from Pearson, plus additional verbal information, the Pilot Plant process flow diagram (Figure V-5) was developed to describe the process in more detail, and to confirm the essential validity of...



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