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**CORE CONVERSION STUDY
FROM SILICIDE TO MOLYBDENUM FUEL IN
THE INDONESIAN 30 MW MULTIPURPOSE
REACTOR G.A. SIWABESSY (RSG-GAS)**

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- **The main objective of this paper is to obtain the transition cores of the RSG-GAS reactor to convert the core from an all-silicide core to an all-molybdenum core using the silicide-molybdenum mixed transition cores**
- **The design constraints : no modification on the reactor plant, core and fuel element. The fuel refueling/reshuffling is same as that of the present core.**
- **The parametric survey in the 3.55 g.cm^{-3} meat uranium density. The content of Mo is 6 and 9 w/o.**
- **Calculations are carried out using combination of WIMSD-5B and Batan-EQUIL-2D codes.**
- **The calculated results showed that the proposed silicide-molybdenum mixed transition cores, using the same refueling/reshuffling scheme, meet the safety criteria and it can be used in safely converting from an all-silicide core to an all-molybdenum core**