PLANNING SAFEGUARD PRESSURE GAS N2O FOR ANESTHESIA GAS UNIT AT CENTRAL MEDICAL GAS

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ABSTRACT
Safeguard systems planning has been done on the determination of medical gas space parameters N2O gas pressure to get the system operational security anesthesi machine. Planning is done by using the method of difference pressure gas supply with gas anesthesia unit needs. Large minimum pressure required by the gas anesthesia unit of 280 kPa, but the ideal pressure for maximum performance of anesthesia machine-400kPa 345kPa. Until the gas supply pressure must not be less than 345 kPa. By using the system safeguard the supply of gas supply tubes will detect when the supply pressure decreases and the supply pressure at the critical pressure is reached then occur until the turn of the supply tube pressure anesthesia gas supply to the unit remain awake at ideal pressure. From the results of stress research has been done and compared with the results of the validation of experimental results obtained on a system that uses the turn performance safeguard two regulator system where the first indicators of stress in the critical position is at a pressure of 450 kPa will occur until the turn of the performance regulator system for N2O gas flow and signal lights. The second system is a critical indicator of the pressure at the pressure of 400 kPa until a second critical signal lights and alarm sign supply in critical condition goes. So the supply gas N2O will remain awake and gas supply can be utilized optimally.

Keywords: safeguard, anesthesia, N2O gas pressure,