

## **ABSTRACT**

*Based on the regulation of the minister of communication and informatics article 2 paragraph (3), data center service providers are responsible for designing and building data centers in accordance with topology standards chosen according to their needs based on business needs studies and business impact analysis. Furthermore, data center providers must control access and physical security and logical data centers as referred to in article 8 letter c, and in article 11 of the fifth section concerning energy efficiency requirements, data center operators must continuously use efficient energy to operate their data centers. However, in DISKOMINFO Regency Bandung sub data center, measurement has not been carried out to optimize building construction design and sub data center environment control. So that it has not been known that the design can function properly or not. Therefore we need a measurement design before the implementation phase is done. To make measurements, a reference standard is needed so that it can be recognized and can be implemented. In designing this sub data center measurement, EN 50600-2-1 Building Constructions and EN 50600-2-3 Environmental Control are the standards that will be applied and the PPDIOO Life-Cycle Approach as a research method. The results of this study are in the form of guidance in measuring data centers according to EN 50600-2-1 Building Constructions and EN 50600-2-3 Environmental Control.*

**Keywords :** *data center, environmental control, sub data center, EN 50600, PPDIOO Life-Cycle Approach.*