

1.8 Various Power System Elements That Need Protection

The power system consists of alternators, busbars, transformers for transmission and distribution, transmission lines at various voltage levels from EHV to 11 kV, cables, induction and synchronous motors, reactors, capacitors, instrument and protective CTs and PTs, various control and metering equipment, etc. Each of these entities needs protection. Each apparatus has a unique set of operating conditions. For example, while the transmission line is spread out geographically over a very long distance, the transformer windings are localized to comparatively much smaller space. While the alternator is a huge rotating mass with mechanical coupling to the turbine and electrical coupling to the power system, the busbars present an entirely different scenario as far as protection is concerned. Thus each apparatus needs a different kind of protective system targeted to its unique set of anticipated faults and abnormal operating conditions. This makes the field of power system protection a medley of relay operating principles and schemes. However, it is possible to sort out this seemingly kaleidoscopic situation by either focusing on the power system element that one is trying to protect or by focusing on the protection principle involved. Both approaches are complementary and both should be used.

1.9 Various Principles of Power System Protection

The most visible effect of fault is a sudden build-up of current. Thus, *over-current* relaying is the most natural principle of relaying. However, fault current magnitude is a function of type of fault and the source impedance. The source impedance, which depends upon the number of generating units that are in service at a given time, keeps changing from time to time. Therefore, the reach as well as the operating time of over-current relaying keep changing from fault to fault, and time to time.

This has led relay engineers to think of other principles of protection. Another very natural and appealing principle is the *differential* protection. It is based on the premise that the current entering a protected section must be equal to that leaving it. Any discrepancy between the two indicates the presence of a fault. However, it is impractical to apply this principle to a transmission line because the ends are far apart and it is not easy to compare information at the two ends.

To get over the above problem, a *distance* relay compares voltage with current at the same end. This, in effect, measures the impedance between the relay location and the fault point. Since impedance of a transmission line can be considered to be directly proportional to the distance along the line, this type of relaying is known as *distance* relaying.

In case of a double-end feed system, or parallel lines, or a ring main system, a fault gets fed from both sides. In order to be selective, the relay must be sensitive to the direction of fault power flow. The relays which exhibit such property are termed *directional* relays. The entire gamut of protection can be captured in Table 1.3.

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AN Whitehead



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