A well-known bijection between checkerboard-colored link diagrams and edge-signed planar graphs has led to a number of connections between link polynomials and graph polynomials. As an example, Thistlethwaite extracted a “boundary term polynomial” from the unnormalized Kauffman polynomial and expressed this polynomial as a product of Tutte polynomials. From this result, Thistlethwaite proved that a link diagram is $A$-adequate if and only if its boundary term polynomial is nonvanishing. In this talk, we will discuss an extension of this result to $\sigma$-adequate link diagrams. We will also show how a relatively recent expansion of the Tutte polynomial can be used to prove that every link diagram is $\sigma$-adequate. (Received September 19, 2015)