Mitigation method/Results/Conclusion

At this installation, the lightning struck the antenna tower; the surge current flowed into E0 earthing through the wave guide and building structures, and the DC power feeding line. The potential of E0 and also of the DC power feeding lines rose. The surge current penetrated ISM and flowed into E0, and then the ISM packages were damaged. To solve this problem, it was required to change the feeding routes as shown in Figure 2.4-2.

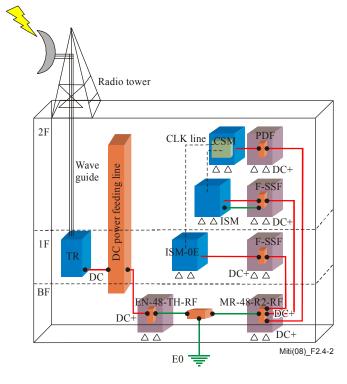


Figure 2.4-2 – Mitigation configuration

References

Recs ITU-T K.27, ITU-T K.35, ITU-T K.40, ITU-T K.56; Annex C.