

DAFTAR PUSTAKA

- [1] R. P. Luntungan, L. S. Patras, and G. MCh Mangindaan, "Analisa Daerah Lindung dan Grounding Pada Tower Transmisi Akibat Terjadinya Back Flashover," *Journal Teknik Elektro dan Komputer*, vol. 7, no. 3, pp. 199–206, 2018.
- [2] Novizon, Y. M. Seftiani, and M. H. Ahmad, "Flashover Phenomenon on 150kV Transmission Line Due to Direct Lightning Strike on the Ground Wire," in *16th International Conference on Quality in Research (QIR): International Symposium on Electrical and Computer Engineering*, 2019.
- [3] N. H. Saputro, "Analisa Pentanahan Kaki Menara Transmisi 150 kV Rembang-Blora Bertahanan Tinggi dan Usaha Menurunkannya," 2016.
- [4] Z. G. Datsios, P. N. Mikropoulos, and T. E. Tsovilis, "Impulse Resistance of Concentrated Tower Grounding Systems Simulated by an ATPDraw Object," *the International Conference on Power Systems Transients (IPST2011)*, 2011.
- [5] CIGRE, *063 Guide to procedures for estimating the lightning performance of transmission lines*. 1991.
- [6] F. M. Gatta, A. Geri, and S. Lauria, "Backflashover Simulation of HV Transmission Lines with Concentrated Tower Grounding," *Electric Power Systems Research*, vol. 73, no. 3, pp. 373–381, Mar. 2005, doi: 10.1016/j.epsr.2004.08.011.
- [7] Z. G. Datsios, P. N. Mikropoulos, T. E. Tsovilis, and S. I. Angelakidou, "Effect of Concentrated Tower Grounding System Modeling on the Minimum Backflashover Current and BFR of 150 and 400 kV Overhead Transmission Lines," in *ICHVE 2018 - 2018 IEEE International Conference on High Voltage Engineering and Application*, Institute of Electrical and Electronics Engineers Inc., Jul. 2018. doi: 10.1109/ICHVE.2018.8641998.
- [8] K. M. Habsari, H. Darna, F. Amaral, and H. Farhan, "Profil Tegangan Surja Petir pada Generator Impuls RLC Sebagai Simulasi Tegangan Lebih," *ELPOSYS: Jurnal Sistem Kelistrikan*, vol. 9, no. 1, pp. 24–27, 2022.
- [9] J. Manik and E. Ervianto, "Pengaruh Tahanan Kaki Menara Type Gantry terhadap Terjadinya Back Flashover pada Isolator Saluran 115 kV PT Chevron Pacific Indonesia," *JOM FTEKNIK*, vol. 2, no. 1, pp. 1–10, 2015.
- [10] Gassing, "Analisis Sistem Proteksi Petir (Lighting Performance) pada SUTT 150 kV Sistem Sulawesi Selatan," *Prosiding 2012*, vol. 6, pp. 1–12, 2012.
- [11] T. Ginting, N. Janter, G. P. Andrew, and A. Pane, "Simulasi Tegangan Induksi Kabel Akibat Arus Petir Pada Kawat Penangkal Petir," *Jurnal Teknologi Energi Uda*, vol. 9, no. 2, pp. 115–122, 2020.

- [12] I. Dwi Septiarini, I. A. Usman Gani, I. Managam Rajagukguk, and Program Studi Teknik Elektro Jurusan Teknik Elektro Fakultas Teknik Universitas Tanjungpura Pontianak, "Analisa Pemetaan Daerah Rawan Sambaran Petir di Wilayah Kota Pontianak dengan Menggunakan Metode Simple Additive Weighting."
- [13] Yusmartato and R. Nasution, "Menentukan Parameter Generator Impuls Untuk Gelombang Impuls Petir," *Journal of Electrical Technology*, vol. 5, no. 3, pp. 1–9, 2020.
- [14] D. Suwarti Widyastuti and Sugiarto, "Dampak Pemberian Impuls Arus Terhadap Tingkat Perlindungan Arrester Tegangan Rendah," *Journal Angkasa*, vol. 7, no. 2, pp. 75–84, 2015.
- [15] S. S. Wiwaha, R. Duanaputri, S. S. Wibowo, A. Prasetyo, and S. Wahyuni Dali, "Evaluasi Pentanahan Terhadap Sambaran Petir Pada SUTT 70 kV Menggunakan Electro Magnetic Transient Program (EMTP)," *ELPOSYS: Jurnal Sistem Kelistrikan*, vol. 8, no. 3, pp. 41–46, 2021.
- [16] B. Marungsri, S. Boonpoke, A. Rawangpai, A. Oonsivilal, and K. Kritaya, "Study of Tower Grounding Resistance Effected Backflashover to 500 kV Transmission Line in Thailand by using ATP/EMTP," *World Academy of Science, Engineering and Technology International Journal of Electrical and Computer Engineering*, vol. 2, no. 6, pp. 1061–1068, 2018.
- [17] M. Y. Nugroho, M. Facta, and A. Syakur, "Penggunaan ATP Draw 3.8 untuk Menentukan Jumlah Gangguan pada Saluran Transmisi 150 kV Akibat Backflashover," *TRANSMISI*, vol. 18, no. 1, pp. 15–21, 2016.
- [18] S. Hardi, F. Mirza, F. R. A. Bukit, and Rohana, "Influence of Lightning Characteristics on Back Flashover in Extra High Voltage Transmission Line: A case study," in *Journal of Physics: Conference Series*, IOP Publishing Ltd, 2021, pp. 1–8. doi: 10.1088/1742-6596/1811/1/012048.
- [19] D. Nugroho, "Konfigurasi Elektroda Batang pada Sistem Pentanahan," *Jurnal Transistor ISSN 1411-366X*, vol. 1, pp. 7–22, 2006.
- [20] Badan Standardisasi Nasional, *Persyaratan Umum Instalasi Listrik 2000 (PUIL 2000)*. 2000.
- [21] A. V. Korsuntsev, "Application of The Theory of Similitude to The Calculation of Concentrated Earth Electrodes," vol. 5, pp. 31–35, 1958.
- [22] F. Popolansky, "Determination of Impulse Characteristics of Concentrated Electrodes, CIGRE SC 33-86 (WG 01) IWD 22," 1986.
- [23] E. E. Oettle, "A New General Estimation Curve for Predicting The Impulse Impedance of Concentrated Earth Electrodes," *IEEE Transactions on Power Delivery*, vol. 3, no. 4, pp. 2020–2029, 1988.
- [24] W. A. Chisholm and W. Janischewskyj, "Lightning Surge Response of Ground Electrodes," *IEEE Trans. Power Del.*, 1989, vol. 4, no. 2, pp. 1329–1337.

- [25] P. Chowdhuri, "Grounding for Protection Against Lightning in Electromagnetic Transients in Power Systems. Research Studies Press Ltd., John Wiley & sons inc., New York," pp. 104–113, 1996.
- [26] Z. G. Datsios *et al.*, "Estimation of the Minimum Backflashover Current of Overhead Lines of the Hellenic Transmission System through ATP-EMTP Simulations Estimation of the Minimum Backflashover Current of Overhead Lines of the Hellenic Transmission System through ATP-EMTP Simulations Lightning and Power Systems," in *International Colloquium on Lightning and Power Systems*, 2016, pp. 1–11. [Online]. Available: <http://www.cigre.org>
- [27] K. H. Weck, "The current dependence of tower footing resistance, CIGRE 33-88 (WG01), p. 14 IWD," 1988.
- [28] Z. G. Datsios, E. Stracqualursi, D. G. Patsalis, R. Araneo, P. N. Mikropoulos, and T. E. Tsovilis, "Evaluation of the backflashover performance of a 150 kV overhead transmission line considering frequency- And current-dependent effects of tower grounding systems," *IEEE Trans Ind Appl*, vol. 60, no. 2, pp. 2611–2620, 2023, doi: 10.1109/TIA.2023.3338132.
- [29] J. Napitupulu, I. Safarudin, and A. Hernandez, "Studi Kegagalan Perlindungan Kawat Tanah terhadap Sambaran Petir pada Saluran Transmisi 150 kV," *Jurnal Teknologi Energi Uda*, vol. 10, no. 2, pp. 60–67, 2021.
- [30] M. H. Ulawia, "Evaluasi Pengaruh Lokasi Pemasangan Surja Arrester pada Saluran Udara Tegangan Tinggi (SUTT) 150 kV terhadap Tegangan Lebih Switching," 2015.
- [31] A. Ametani and T. Kawamura, "A Method of A Lightning Surge Analysis Recommended in Japan Using EMTP," *IEEE Transactions on Power Delivery*, vol. 20, no. 2, pp. 867–875, Apr. 2005, doi: 10.1109/TPWRD.2004.839183.
- [32] C. Stevanny and F. Murdiya, "Analisa Sambaran Petir Terhadap Kinerja Arrester pada Transformator Daya 150 kV Menggunakan Program ATP," *Jom FTEKNIK*, vol. 4, no. 1, pp. 1–9, 2017.
- [33] PT PLN (Persero), *DOKUMEN PT PLN (PERSERO) 0520: Lightning Arrester*. 2014.
- [34] J. Manihuruk and N. L. Sitanggang, "Studi Kemampuan Arrester untuk Pengaman Transformator pada Gardu Induk Tanjung Morawa 150 KV," *Telecommunications & Control System-ELPOTecs Jurnal ELPOTecs* |, vol. 4, no. 1, pp. 16–25, 2021.
- [35] H. Halomoan Sinaga and T. Haryono, "Model Arrester SiC Menggunakan Model Arrester ZnO IEEE WG 3.4.11," *Jurnal Teknik Elektro, Fakultas Teknologi Industri – Universitas Kristen Petra*, pp. 1–5, 2005, [Online]. Available: <http://puslit.petra.ac.id/journals/electrical/>
- [36] T. Saengsuwan and W. Thipprasert, "The Lightning Arrester Modeling Using ATP-EMTP," *Nat. Sci.*, vol. 42, pp. 156–164, 2008.

- [37] D. V. Putri, “Analisa Pengaruh Impedansi Kaki Menara Fungsi dari Frekuensi Arus Petir terhadap Backflashover Pada Saluran Transmisi Menggunakan Simulasi ATPDraw.”
- [38] S. A. Nugroho and S. Aprilia, “Analisis Perbandingan Karakteristik Arester Jenis Metal-Oxide Akibat Sambaran Petir,” *Edu ElektriKA Journal*, vol. 10, no. 1, 2021.

