



**YAYASAN BRATA BHAKTI JAWA-TIMUR**  
**UNIVERSITAS BHAYANGKARA SURABAYA**  
**LEMBAGA PENELITIAN DAN PENGABDIAN KEPADA MASYARAKAT**  
**(LPPM)**

Jalan Ahmad Yani 114 Surabaya, Telp. 031-8285602, 8291055, Fax. 031-8285601

**SURAT KETERANGAN**

Nomor : Sket/63/II/2023/LPPM/UBHARA

Yang bertanda tangan dibawah ini :

Nama : Drs. Heru Irianto, M.Si  
NIP : 9000028  
NIDN : 0714056102  
Jabatan : Kepala Lembaga Penelitian dan Pengabdian Kepada Masyarakat  
(LPPM) Universitas bhayangkara Surabaya

Dengan ini menerangkan bahwa dosen prodi Teknik elektro Universitas Bhayangkara Surabaya atas nama **Dr. Ir. Saidah, MT** benar telah melakukan kegiatan :

1. Menulis artikel yang telah di publish di Jurnal Nasional Terakreditasi **Sinergi, Volume 26, Nomor 3** berjudul **Study Of Power And Voltage Delivery After Successfully Black-Start**, sebagai koresponden, Oktober 2022, ISSN : 1410-2331, **terindeks Sinta 2**
2. Telah melakukan korespondensi melalui email dan OJS dalam proses review dan penerbitan jurnal tersebut. Bukti korespondensi email dan bukti pendukung adalah benar sudah dilakukan oleh yang bersangkutan serta sudah dilampirkan bersama surat ini.

Demikian surat keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

Surabaya, 31 Januari 2023  
Kepala LPPM  
  
Drs. Heru Irianto, M.Si



# JOURNAL REGISTRATION

99+

Tulis

Mail

**Kotak Masuk** 4,915

Chat

Berbintang

Ditunda

Spaces

Penting

Terkirim

Meet

**Draf** 65

Kategori

**Sosial** 994

**Update** 1,492

**Forum** 3

**Promosi** 2,094

Selengkapnya

Label

### [Sinergi] Journal Registration

Eksternal

Kotak Masuk x



**Dr. Andi Adriansyah** <andi@mercubuana.ac.id>

Kam, 19 Mar 2020

kepada saya

Inggris

Indonesia

Terjemahkan pesan

Non

Dr. Saidah Saidah

You have now been registered as a user with SINERGI. We have included your username and password in this email, which are needed for all work with this journal through its website. At any point, you can ask to be removed from the journal's list of users by contacting me.

Username: saidh  
Password: gYQwGHXq

Thank you,  
Dr. Andi Adriansyah

SINERGI

<http://publikasi.mercubuana.ac.id/index.php/sinergi>

<http://email-link.mercubuana.ac.id/click?urn=x0A-2BD18-2B-E7-1CDD-4mK04HBQuidrDzw32vimH4D5AV7kIW72r>

# PROSES REVISION

## Table of Correction

No.	Comment Reviewer	Comment Author	Revising
1.	<b>STUDY OF POWER AND VOLTAGE DELIVERY FROM GRATI TO PAITON SUBSTATION AFTER GRATI GAS-STEAM POWER PLANT SUCCESSFUL BLACK-START</b>	1. The title consist of 9 words 2. The abstract consist of 194 words	1. STUDY OF POWER AND VOLTAGE DELIVERY AFTER SUCCESSFULLY BLACK-START 2. abstract can be seen in the article
2.	<i>distribution of electricity to customers and reducing the amount of Energy Not Channeled is by accelerating the recovery process when a disruption occur in the electricity</i>	Channeled ..... should be ..... distributed	<i>Efforts to maintain continuity of electricity distribution to customers and reduce the amount of Energy Not <b>Distributed</b> (END) are to speed up the recovery process due to disturbances in the electricity</i>
3.	<i>The study of power flow simulation used as basic reference in the power and voltage distribution's scheme, in this</i>	Simulation used ..... should be ..... simulation was used	The contents of the abstract have been revised
4.	<i>Based on the simulation results of several scheme models, several models could be useg to</i>	Useg ..... Should be ..... used	The contents of the abstract have been revised
5.	<i>transmit power and voltage from Gartı substation to Paiton substation because the generator's Mvar and the voltage</i>	Garti ..... should be .....Grati	the revision is on row 6 from the bottom in the abstract
6.	<i>and the voltage at the furthest end of Paiton substation still meets the nominal voltage according to the Grid Code.</i>	The Grid Code ..... should be ..... The Grid	the revision is on the last line in the abstract
7.	Disturbances that may occur in an Electric Power Network System are Total Outages or blackouts, where the disturbance means an Electrical Network System Loss all power supply, and results in the blackout of all loads on the electrical system. Several cases of total outages or blackout disturbances that have occurred : [3][4]		Disturbances that may occur in an electric power grid system are total outages or blackouts. A blackout is a total loss of <b>electrical power</b> , resulting in the blackout of all loads on the electrical system. Several cases of total outages or blackout disturbances have occurred : [3][4]
8	After the Grati Gas Steam Power Plant	<b>Should be Without to.</b>	After the Grati Gas Steam Power Plant (GSPP) can be generated, it

	(GSPP) can be generated, it is continued by sending voltage to the Paiton SS via SUTT with a line length of 104.9 Km, passing through the Grati SS – Gondangwetan SS – Probolinggo SS – Kraksaan SS – Paiton SS, to then be able to provide power supply to the generator in Paiton SS.		is continued by sending voltage to the Paiton SS via SUTT with a line length of 104.9 Km, passing through the Grati SS – Gondangwetan SS – Probolinggo SS – Kraksaan SS – Paiton SS, then be able to provide power to the generator in Paiton SS.
9	So in this plan, using an approach through simulation with DigSILENT software.	STUDY OF POWER AND VOLTAGE DELIVERY AFTER SUCCESSFULLY BLACK-START with a case study of recovery due to blackout in Grati-Paiton, namely power, and voltage delivery, usually simulated first using Etap or Matlab software with various methods. But this paper is simulated using DigSILENT software. The usability comparison between DigSILENT and Matlab/Etab software is shown in Table 1. the author conducts a power flow study for 8 schemes of power and voltage delivery from the Grati SS to the Paiton SS, to determine the most optimal delivery path, taking into account that the Mvar of generating must not exceed the maximum absorption limit, the voltage in Paiton is the allowable nominal voltage and the shortest delivery path.	<b>revising is in column 1 on page 3 and table 1 on column 2</b>
10	Sea Cable Channel according to the network shown in Figure 2.	<b>Should be line</b>	Sea Cable line according to the network shown in Figure 2.
11	<b>Simulation of Power and Voltage Delivery on Schematic 5</b>	Yes, this is repetition, and already delete	
12	In this scheme, after the black-start Grati GT#2.1 GSPP Generator,	need to add the word "of" before the word "Grati"	In this scheme, after the black-start of Grati GT#2.1 GSPP Generator

13	Figure 22. Generator Mvar and Voltage Schematic 8	Figure 22 has been explained and its relationship with table 12 and the revision is in column 1 page 13	The magnitude of the Mvar of the Grati GT#1.1 GSPP Generator and the Voltage on the Network during the process of sending power and voltage are shown in Figure 22. The simulation results of schematic 8, after Grati GT#2.1 GSPP black-start, and filling the voltage at the 150kV Grati SS, the generator ..... etc
14	From the simulation results, obtained data for all stages, the generator produces Mvar of -0.3 Mvar – 9 Mvar, and a voltage of 150kV (end side) obtained data of 147.7 kV – 149.69 kV.		From the simulation results, obtained data for all stages, the generator produces -0.3 Mvar – 9 Mvar, and a voltage of 150kV (end side) obtained data of 147.7 kV – 149.69 kV.
15	Table 12. Stages of the 8. Schematic Maneuver	This table has been explained and its relationship to Figure 22.  the revision is in column 1 on page 13	The simulation results of schematic 8, after Grati GT#2.1 GSPP black-start, and filling the voltage at the 150kV Grati SS, the generator produces 0 Mvar. The generator is given a minimum load through Grati transformer-1 and Gondangwetan transformer-1. At this stage, the generator produces 9 Mvar and a voltage of 148.07 kV ..... etc
16	<b>J. Comparison of Simulation Results of All Schemes</b> The results of the comparison of all schemes can be seen in Table 13.	Table 13 has been revised and the explanation is in column 2 on page 14	The Explanation of Table 13 is in column 2 page 14
17	SS – Kraksaan SS – Paiton SS delivery route because it has the least number of total maneuvers, which is 11 maneuvering steps, with a generating Mvar of 3.9 Mvar to 13.4 Mvar and the voltage up to the end of 149.9 kV.	This explanation is not included in the conclusion but is an explanation in table 13. The contents of the conclusion have been revised, which contains the general conclusions of this study	
18	<b>REFERENCES</b>	1. This reference has been revised according to the template 2. Some references in Indonesian are translated into English	The References is on page 14 and 15

		<ul style="list-style-type: none"><li>3. Reference may be categorized as a no-credible source has been revised</li><li>4. The number of references increased to 18</li></ul>	
--	--	--	--



# COPYRIGHT TRANSFER AGREEMENT

## COPYRIGHT TRANSFER AGREEMENT

I, the undersigned, on behalf of all authors, hereby declare that the following article is an original work of the authors, has not been published before, and it is not under consideration for publication in any other journals/conferences.

The article entitled : **Study of power and voltage delivery after successfully black-start**

Authors 1 : **Andika Pradnya Satriawan**

Authors 2 : Saidah

Authors 3 : Taufik \_\_\_\_\_

Authors 4 : \_\_\_\_\_

Authors 5 : \_\_\_\_\_

Affiliation 1: : Department of Electrical Engineering, Universitas Bhayangkara Surabaya, Indonesia \_\_\_\_\_

Affiliation 2: : Department of Electrical Engineering, Universitas Bhayangkara Surabaya, Indonesia \_\_\_\_\_

Affiliation 3: : Department of Electrical Engineering, California Polytechnic State University, United States \_\_\_\_\_

I hereby agree to transfer all copyright to *SINERGI* and *Universitas Mercu Buana* as a journal publisher. Copyright includes the exclusive right to reproduce and provide articles in all forms and media, including reprints, photographs, microfilms and any other similar reproduction, as well as translation.

The author still has the right to the following:

1. The right to make further copies of all or part of the published article for my use in classroom teaching;
2. The right to reuse all or part of this material in a compilation of my own works or in a textbook of which I am the author;
3. The right to make copies of the published work for internal distribution within the institution that employs me.

I am responsible for the entire contents of the submitted article. I agree that this transfer of rights also applies to all copies made in connection with the submission of this article and I will also inform this agreement to other authors.

Date : NOVEMBER 11, 2022

Main/corresponding authors signature:

