



## NATIONAL POWER CORPORATION

27 July 2023

**MR. JOE AMIL M. SALINO**

Regional Director

Environmental Management Bureau – Region IV-B  
Department of Environment and Natural Resources  
6<sup>th</sup> Flr. DENR by the Bay Bldg., 1212 Roxas Blvd.,  
Ermita, Manila

**SUBJECT : DEMOBILIZATION OF POWER SYSTEM INCORPORATED  
(PSI) AT PULANG LUPA DPP AND THE RETURN OF 15MVA  
POWER TRANSFORMER TO NPC SAN JOSE SUBSTATION**

Dear Mr. SALINO,

This is to inform you regarding the demobilization of Power System Incorporated (PSI) and the return of 15MVA Power Transformer to San Jose Substation. The agreement between the National Electrification Administration (NEA) and Power System Incorporated (PSI) expired last June 28, 2023 and the contractor PSI informed us that they will start to demobilize their equipments and facilities based on the letter dated 26 July 2023.

Attached herewith the copy of Test of our 15MVA Power Transformer as PCB Free (attachment #1), and our previous letter dated 27 June 2023 forwarded to your office under CCO-PCB-R4B-PUL-10 to be removed from PCB equipment registry and to issue PCB-Free Certification (attachment #2).

For your information and reference.

Prepared by:

**JAYSON M. TATAD**  
PCO, Pulang Lupa DPP

Approved by:

**ROGELIO P. SO**  
Managing Head, Pulang Lupa DPP





## NATIONAL POWER CORPORATION

27 June 2023

**JOE AMIL M. SALINO**

Regional Director

DENR-Environmental Management Bureau – MIMAROPA

6<sup>th</sup> Floor DENR by the Bay Bldg., 1515 Roxas Blvd.

Ermita, Manila

**SUBJECT : REQUEST FOR PCB-FREE CERTIFICATION OF NPC-PULANG LUPA DIESEL POWER PLANT**

Dear Director Salino:

This is to request that the National Power Corporation (NPC)-Pulang Lupa Diesel Power Plant (DPP) transformer, covered by CCO-PCB-R4B-PUL-10, be removed from the PCB equipment registry and be issued with PCB-Free Certification. Tabulated below are the transformer details, as indicated in the nameplate:

RATING	SERIAL NO.	MANUFACTURER	YEAR MANUFACTURED	TYPE OF COOLING	PCB Analysis Sample ID	REMARKS
15 MVA	1133007	ABB Elta Sp.	1998	ONAN*	P00099633-02	No maintenance activities conducted since PCB analysis

*\*Oil Natural Air Natural*

The PCB concentration of dielectric oil in transformer is Not Detected (ND) based on the results of analyses conducted by CRL Environmental Corporation. In accordance with EMB Memorandum Circular 2015-007: Technical Guidance Document on Polychlorinated Biphenyls (PCBs) Management, any equipment containing dielectric oil with PCB concentration of less than (<) 2 ppm is classified as PCB-free; hence this request.

BIR Road cor. Quezon Avenue, Diliman  
Quezon City 1100, Philippines  
Tel. Nos. (632) 921-3541 to 80  
Fax No. (632) 921-2468



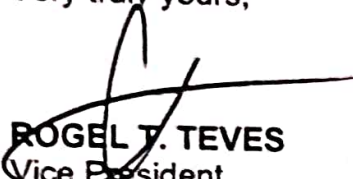
Attached are the following documents for your review/evaluation:

- a) Result of Analyses (**Attachment 1**)
- b) Photo of transformer's nameplate (**Attachment 2**)
- c) Certification of No-Retrofilling (**Attachment 3**)

We hope that our request merits your consideration.

Thank you and best regards.

Very truly yours,



**ROGEL T. TEVES**  
Vice President  
Power Engineering Services

Encl: a/s

cf : L.I. Sabellina - VP, SPUG  
E.T. Tatel - Manager, LOD  
J.R. A. Cuyos - OIC, MROD  
J.M. Tatad - PCO, Pulang Lupa DPP

Test Description	Results	Units	MDL	DLA	Test Methods	Date Analyzed	By	QA
Sample No.: P00099833-02			Date Sampled: 11-19-19 08:50					
Sample ID: ABB Elta Sp - 2 - 00 18 MVA S/N 1133007			Matrix: Oil					
-Organics								
PCB Congeners								
2,2',3,3',4,4',5,5'-Nonachlorobiphenyl (BZ#208)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,3',4,4',5'-Heptachlorobiphenyl (BZ#170)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ#180)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5',6'-Heptachlorobiphenyl (BZ#183)	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5',6'-Hexachlorobiphenyl (BZ#135)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,5,5',6'-Heptachlorobiphenyl (BZ#187)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,5,5',6'-Hexachlorobiphenyl (BZ#141)	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	
2,2',3,4,5'-Pentachlorobiphenyl (BZ#97)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,5,5',6'-Hexachlorobiphenyl (BZ#151)	ND	mg/kg	0.25	0.25	EPA 8082A	11/23/19	CACB	
2,2',3,5'-Tetrachlorobiphenyl (BZ#44)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',4,4',5,5'-Hexachlorobiphenyl (BZ#153)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',4,5,5'-Pentachlorobiphenyl (BZ#101)	ND	mg/kg	0.24	0.24	EPA 8082A	11/23/19	CACB	
2,2',5,5'-Tetrachlorobiphenyl (BZ#52)	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	
2,2',5'-Trichlorobiphenyl (BZ#18)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,3,3',4'-6-Pentachlorobiphenyl (BZ#110)	ND	mg/kg	0.21	0.21	EPA 8082A	11/23/19	CACB	
2,3,4,4'-Tetrachlorobiphenyl (BZ#66)	ND	mg/kg	0.22	0.22	EPA 8082A	11/23/19	CACB	
2,3-Dichlorobiphenyl (BZ#5)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,4'-5-Trichlorobiphenyl (BZ#31)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2-chlorobiphenyl (BZ#1)	ND	mg/kg	0.25	0.25	EPA 8082A	11/23/19	CACB	
Total PCB	ND	mg/kg	0.25	0.25	EPA 8082A	11/23/19	CACB	
PCBs as Aroclors								
Aroclor 1018	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1221	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1232	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	
Aroclor 1242	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1248	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1254	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1260	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1262	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Aroclor 1268	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
Total PCBs as Aroclors	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	

&gt;&gt;&gt; end of result set for Sample No. P00099833-02 &lt;&lt;&lt;

Sample No.: P00099833-03  
 Sample ID: ABB 10 MVA S/N 8380959  
 -Organics-

Date Sampled: 11-19-19 14:45  
 Matrix: Oil

## PCB Congeners

2,2',3,3',4,4',5,5'-Nonachlorobiphenyl (BZ#208)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,3',4,4',5'-Heptachlorobiphenyl (BZ#170)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (BZ#180)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5',6'-Heptachlorobiphenyl (BZ#183)	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	
2,2',3,4,4',5',6'-Hexachlorobiphenyl (BZ#135)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,5,5',6'-Heptachlorobiphenyl (BZ#187)	ND	mg/kg	0.15	0.15	EPA 8082A	11/23/19	CACB	
2,2',3,4,5,5',6'-Hexachlorobiphenyl (BZ#141)	ND	mg/kg	0.17	0.17	EPA 8082A	11/23/19	CACB	

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CRL Environmental  
 Corporation

• Sole Office: United States, 1100 E. 15th St., Suite 100, Aurora, CO 80012  
 • Laboratory: 1100 E. 15th St., Suite 100, Aurora, CO 80012  
 • Laboratory: 1100 E. 15th St., Suite 100, Aurora, CO 80012



# NPC-PULANG LUPA DIESEL POWER PLANT TRANSFORMER

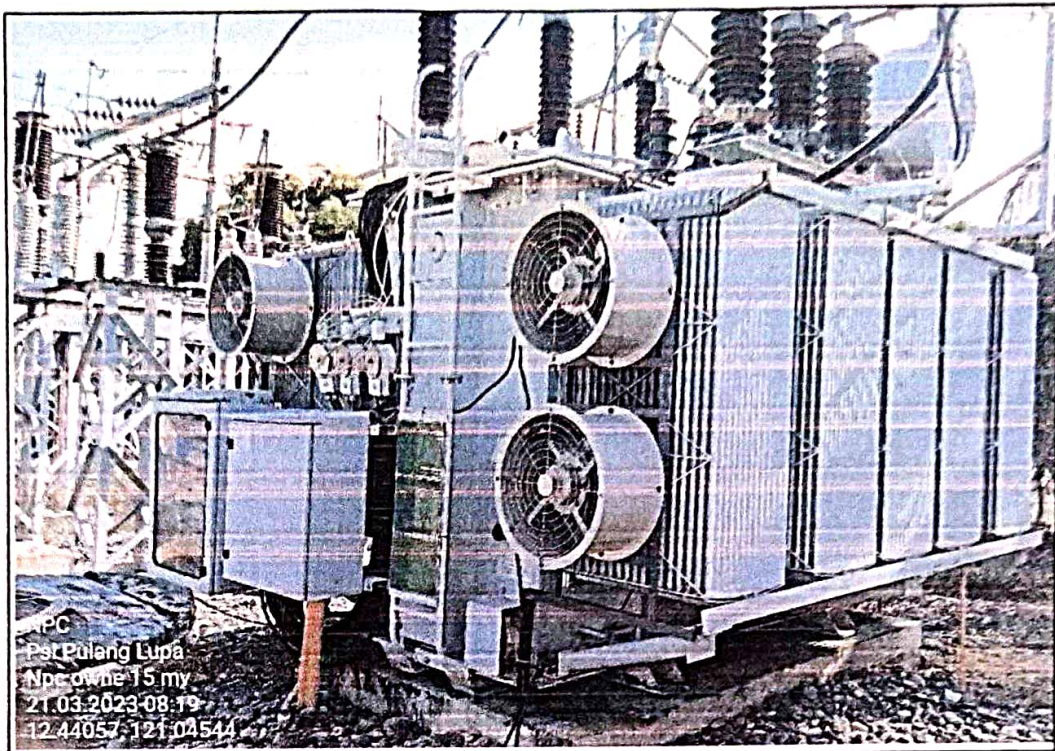


ABB EITC Sp. z o.o.  
Zakład Transformatorów Mocny

POWER TRANSFORMER to 15000/15000/15000 Standard 15000

Type ☐ INORD 15000/15000/15000 No. of phases ☐ 3 No. of manufacture ☐ 1

Rated frequency in cps ☐ 50 Connection symbol ☐ Yd11 No. of taps ☐ 2

Rated data: Power in kVA ☐ 15000 Voltage in kV ☐ 15000 Rated in kVA ☐ 15000 Model or type ☐ 15000/15000/15000

HV winding ☐ 15000 ☐ 69000 ☐ 12000 ☐ 15000/15000/15000

LV winding ☐ 15000 ☐ 15000 ☐ 15000 ☐ 15000

Cooling ☐ ONAN Tapping range in % ☐ 2.5/0/2.5

Temp. rises in deg. C. Winding ☐ 65 ☐ 0 ☐ 60 ☐ 105 ☐ 105 ☐ 105 ☐ 105

Impedance voltage at 15000 kV-A in % ☐ 7.88 ☐ 7.57 ☐ 7.31

Masses in kgs. Total ☐ 35000 ☐ 0 ☐ 8900

Pulung Lupa DPP  
21.03.2023 08:19 ABB EITC Sp. z o.o.



# CERTIFICATION

This is to certify that the transformer installed at the **NATIONAL POWER CORPORATION-PULANG LUPA DIESEL POWER PLANT** has not undergone retrofitting and retro filling since conduct of PCB analysis:

RATING	SERIAL NO.	MANUFACTURER	YEAR MANUFACTURED	TYPE OF COOLING
15 MVA	1133007	ABB Elta Sp.	1998	ONAN*

  
**JAYSON M. TATAD**

Pollution Control Officer  
NPC- Pulang Lupa DPP





**Power Systems, Inc.**

2/F Topy Commercial Bldg., Industria cor. Economia St., Libis Quezon City  
Tel. 8637.8317 to 22 Fax. 8637.8311

Letter Ref. No.: **L23-116**  
26 July 2023

**NATIONAL POWER CORPORATION**  
Pulang Lupa Power Plant  
San Jose, Occidental Mindoro

Attention: **ENGR. ROGELIO P. SO**

Subject: **PARTIAL PULL OUT OF EQUIPMENT AT PULANG LUPA**

Dear Engr. So,

Good day!

Our equipment was deployed at the aforementioned site to fulfill the project requirements outlined in our agreement. We have completed all necessary tasks, and our equipment is no longer required on-site. Therefore, we would like to request permission to pull out our equipment partially and place it to our designated plant with the following details.

- Genset 1, 2, 3 and with their designated power cables
- Genset 8, Containerized 800kW
- 1 portion of Synchronizing Panel Feeder 3 with controller includes Power cables
- 5MVA Transformer with Accessories
- Fuel lines

Rest assured, we will ensure that the removal process is conducted efficiently, minimizing any disruptions to ongoing activities at the site.

Thank you for your attention to this matter, and we anticipate your favorable response regarding the equipment pull-out.

Should you have further queries, please do not hesitate to call us at 8637-8317/22.

Thank You,

Very truly yours,

**POWER SYSTEMS, INC.**

**SABEL DE LEON**  
Account Manager

Noted by:

**ALEX V. AQUINO**  
Marketing Manager

NAVOTAS • CEBU • BACOLOD • CAGAYAN • DAVAO • GENSAN • ILO-ILO • ZAMBOANGA