

Ref.: DEWA/PG/G55/LTSA-UNEW

Date: 28 July 2026

To:

Power Generation Corporation 3, Joint Stock Company (EVNGENCO3)

Phu My 2.1 Power Plant

Socialist Republic of Vietnam

Attn: Bid Evaluation Committee / Technical Evaluation Committee

Subject: Acknowledgement and confirmation of in-service performance of compressor blading manufactured and supplied by UNEW, Inc. and installed in gas turbine unit JEBEL ALI G51, JEBEL ALI G55 Power Plant, Dubai, United Arab Emirates

Dear Sirs,

The Dubai Electricity & Water Authority (DEWA) is the electricity and water utility of the Emirate of Dubai, United Arab Emirates, and is the owner and operator of the JEBEL ALI G55 Power Plant at Jebel Ali, Dubai, which forms part of the greater Jebel Ali Power and Water Station complex. The plant operates four Siemens SGT5-2000E / V94.2 gas turbine generator trains, designated JEBEL ALI G51, G52, G53 and G54, each with a TLRI 100/42 generator, dispatched to the DEWA network.

This letter is issued at the request of UNEW, Inc. and confirms the supply, installation, inspection findings and in-service performance of the complete compressor blading manufactured by UNEW, Inc. and installed in gas turbine unit JEBEL ALI G51 of this plant in January and February 2018.

1. Unit and Equipment Identification

Unit and Equipment Identification	
Plant	JEBEL ALI G55 Power Plant, part of the Jebel Ali Power and Water Station complex
Plant owner and operator	Dubai Electricity & Water Authority (DEWA)
Plant location	Jebel Ali, Dubai, United Arab Emirates
Plant configuration	Four (4) gas turbine generator trains, JEBEL ALI G51, G52, G53 and G54
Unit covered by this letter	JEBEL ALI G51
Gas turbine model	Siemens SGT5-2000E / V94.2 (Si3D configuration)
Gas turbine serial number	600712
Generator model and serial number	TLRI 100/42, S/N M10892
Unit rating	Approximately 165 MW at ISO conditions, 3,000 rpm, 50 Hz
Fuel	Natural gas as primary fuel, gasoil as back-up fuel
Control system	Siemens SPPA-T3000 with Teleperm XP (T-2000) automation interface
Operating regime	Commercial dispatch on the DEWA network in mid merit and peaking duty



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2. Supply and Installation of the UNEW Compressor Blading

Unit JEBEL ALI G51 was taken out of service on 10 January 2018 for a scheduled Hot Gas Path Inspection at the 33,000 equivalent operating hour interval defined in the Long Term Service Agreement between DEWA and UNEW, Inc. During that outage the complete axial compressor blading of the unit, rows 1 through 16, was removed and replaced with new compressor blading manufactured and supplied by UNEW, Inc. under Purchase Order PO-DEWA-UNEW-G55-2016-0921.

The replacement covered every compressor row of the machine without exception, comprising both the standard compressor blades and the locking compressor blades of each of the sixteen rows. No original compressor blading was retained in the unit. The complete turbine vane and blade rows 1 to 4 were renewed in the same outage under the same Purchase Order, although the confirmation given in this letter concerns the compressor blading.

Each compressor blade set supplied carries an individual serial number assigned by UNEW, Inc. Serial numbers were verified by DEWA against the certificates of conformance and the receiving inspection records before installation, and were recorded by stage and position on the installation check sheets jointly signed by DEWA and UNEW, Inc. The part numbers and serial numbers of the blading installed are listed in Annex A to this letter.

Supply and Installation Record	
Supplier and manufacturer	UNEW, Inc., 2570 N. First Street, 2nd Floor, San Jose, California 95131, United States of America
Scope supplied and installed	Complete compressor blading for the axial compressor of unit JEBEL ALI G51, rows 1 to 16, comprising the standard compressor blades and the locking compressor blades of every row
Line items and quantity	32 line items covering all 16 compressor rows, one complete set for the unit, each item individually serialized
Serial number block	AA26K0486 to AA26K0517
Commercial reference	Purchase Order PO-DEWA-UNEW-G55-2016-0921 dated 21 September 2016
Contract reference	Long Term Service Agreement UNEW-DEWA-G55-LTSA-2006-001
Installation	Installed in unit JEBEL ALI G51 during the Hot Gas Path Inspection carried out from 10 January 2018 to 05 February 2018
Inspection report reference	UNEW-DEWA-G55-HGPI-2018-G51-001, Hot Gas Path Inspection Report, Unit G51
Return to commercial service	05 February 2018

3. Service Record and Operating Experience

Unit JEBEL ALI G51 returned to commercial service on 05 February 2018 with the UNEW compressor blading installed and has since been dispatched in normal commercial operation on the DEWA network in mid merit and peaking duty, on natural gas as primary fuel and gasoil as back-up fuel.

Over the period from installation to the date of this letter, DEWA has recorded no failure, no liberation, no cracking, no distortion, no abnormal wear, no rub event and no other defect attributable to the compressor blading supplied by UNEW, Inc. No forced outage, no load restriction and no derating of unit JEBEL ALI G51 has been caused by or attributed to these components at any time since their installation. No compressor blade supplied by UNEW, Inc. has been removed, repaired or replaced.

DEWA further records that the restoration of the compressor tip clearances achieved with the new blading at the 2018 outage produced a measurable and lasting improvement in the output and heat rate of the unit, and that the compressor section has not been the cause of any performance related investigation on this unit since that date.

Period / Event	Date	Record
Installation and return to service	05 February 2018	Complete compressor blading rows 1 to 16 installed. Design tip clearances restored on all stages. Unit synchronized and loaded to base load with all parameters within limits
First inspection after installation	February 2022, Combustion Inspection	Compressor stages 1 to 16 inspected by borescope through the designated inspection ports and from the inlet plenum. Blading found clean and in good condition. No blade removed, no blade replaced
Second inspection after installation	March 2025, Combustion Inspection	Compressor stages 1 to 16 again inspected by borescope. No cracking, no foreign object damage, no distortion, no abnormal wear and no rub indication found. Blading returned to service unchanged
Service accumulated on the blading	05 February 2018 to date	Approximately 26,200 operating hours and approximately 32,400 equivalent operating hours on the installed compressor blading
Unit cumulative equivalent operating hours	At the date of this letter	Approximately 65,500 EOH since commissioning
Removals, repairs and replacements	05 February 2018 to date	None. No compressor blade supplied by UNEW, Inc. has been removed, repaired or replaced
Total service to date	05 February 2018 to date	In excess of eight (8) years of continuous commercial service
Next planned event	2027	Major Inspection of unit JEBEL ALI G51 in accordance with Schedule C of the Long Term Service Agreement

4. Inspections Carried Out Since Installation

The compressor blading has been inspected on two scheduled occasions since installation, at the Combustion Inspection of February 2022 and at the Combustion Inspection of March 2025. On both occasions the compressor stages 1 to 16 were inspected by borescope through the designated inspection ports and from the inlet plenum with the inlet guide vanes open, covering the leading edges, the trailing edges, the airfoil surfaces, the blade tips, the visible root and platform areas and the surrounding flow path.

On both occasions the blading was found to be clean and in good condition, free of cracking, foreign object damage, distortion, abnormal erosion and rub indication. No compressor row was opened, no blade was removed, no blade was replaced and no repair or corrective action of any kind was required on the compressor blading as a result of either inspection. The blading was left in the machine in the condition in which it was found.

5. Present Condition

The compressor blading supplied by UNEW, Inc. and installed in January and February 2018 remains installed in unit JEBEL ALI G51 and remains in commercial service at the date of this letter. The unit continues to operate normally within all specified limits. The period of continuous commercial service of these components therefore exceeds eight (8) years, during which the blading has accumulated approximately 32,400 equivalent operating hours.



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The blading will next be accessed at the Major Inspection of the unit planned for 2027 under the Long Term Service Agreement. At the date of this letter there is no indication from operating data, from vibration monitoring, from performance monitoring or from the borescope inspection record that would require the blading to be disturbed before that event.

6. Statement of Acknowledgement

DEWA confirms without reservation that UNEW, Inc. supplied a complete set of compressor blading, rows 1 to 16, for a Siemens SGT5-2000E / V94.2 gas turbine; that this blading was installed in a commercially dispatched utility generating unit in January and February 2018; that it has remained in continuous service in that unit for more than eight years; that it has been inspected twice during that period and found in good condition and suitable for continued operation on both occasions; and that it has caused no failure, no forced outage and no restriction of the unit at any time.

On the basis of the operating record of the unit, the findings of the inspections referred to above and the continuing operating experience, DEWA acknowledges that the compressor blading supplied by UNEW, Inc. has performed satisfactorily and reliably throughout its service life to date and has met the requirements of this plant for its intended application.

DEWA issues this letter for the information of EVNGENCO3 and the Phú Mỹ 2.1 Power Plant and has no objection to its use in support of the qualification of UNEW, Inc. as a supplier of gas turbine components. Any technical or operational point stated in this letter may be verified with the undersigned at the address shown above.

Yours faithfully,

For questions, contact

Nasser Lootah

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Signature and official stamp:



Mr. Nasser Lootah

Vice President of Operations

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ANNEX A

COMPRESSOR BLADING SUPPLIED BY UNEW, INC. AND INSTALLED IN UNIT JEBEL ALI G51

JEBEL ALI G55 Power Plant, Dubai, United Arab Emirates | Siemens SGT5-2000E / V94.2 (Si3D), S/N 600712 | Installed January and February 2018

The following table lists the complete compressor blading supplied by UNEW, Inc. under Purchase Order PO-DEWA-UNEW-G55-2016-0921 and installed in compressor rows 1 to 16 of unit JEBEL ALI G51 during the Hot Gas Path Inspection of 10 January 2018 to 05 February 2018. All items listed remain installed in the unit at the date of this letter.

Item	UNEW Part Number	Description	Serial Number
1	A2A2001101-G001	Standard Compressor Blade, Row 1	AA26K0486
2	A2A2001101-G002	Locking Compressor Blade, Row 1	AA26K0487
3	A2A2001102-G001	Standard Compressor Blade, Row 2	AA26K0488
4	A2A2001102-G002	Locking Compressor Blade, Row 2	AA26K0489
5	A2A2001103-G001	Standard Compressor Blade, Row 3	AA26K0490
6	A2A2001103-G002	Locking Compressor Blade, Row 3	AA26K0491
7	A2A2001104-G001	Standard Compressor Blade, Row 4	AA26K0492
8	A2A2001104-G002	Locking Compressor Blade, Row 4	AA26K0493
9	A2A2001105-G001	Standard Compressor Blade, Row 5	AA26K0494
10	A2A2001105-G002	Locking Compressor Blade, Row 5	AA26K0495
11	A2A2001106-G001	Standard Compressor Blade, Row 6	AA26K0496
12	A2A2001106-G002	Locking Compressor Blade, Row 6	AA26K0497
13	A2A2001107-G001	Standard Compressor Blade, Row 7	AA26K0498
14	A2A2001107-G002	Locking Compressor Blade, Row 7	AA26K0499
15	A2A2001108-G001	Standard Compressor Blade, Row 8	AA26K0500
16	A2A2001108-G002	Locking Compressor Blade, Row 8	AA26K0501
17	A2A2001109-G001	Standard Compressor Blade, Row 9	AA26K0502
18	A2A2001109-G002	Locking Compressor Blade, Row 9	AA26K0503

Item	UNEW Part Number	Description	Serial Number
19	A2A2001110-G001	Standard Compressor Blade, Row 10	AA26K0504
20	A2A2001110-G002	Locking Compressor Blade, Row 10	AA26K0505
21	A2A2001111-G001	Standard Compressor Blade, Row 11	AA26K0506
22	A2A2001111-G002	Locking Compressor Blade, Row 11	AA26K0507
23	A2A2001112-G001	Standard Compressor Blade, Row 12	AA26K0508
24	A2A2001112-G002	Locking Compressor Blade, Row 12	AA26K0509
25	A2A2001113-G001	Standard Compressor Blade, Row 13	AA26K0510
26	A2A2001113-G002	Locking Compressor Blade, Row 13	AA26K0511
27	A2A2001114-G001	Standard Compressor Blade, Row 14	AA26K0512
28	A2A2001114-G002	Locking Compressor Blade, Row 14	AA26K0513
29	A2A2001115-G001	Standard Compressor Blade, Row 15	AA26K0514
30	A2A2001115-G002	Locking Compressor Blade, Row 15	AA26K0515
31	A2A2001116-G001	Standard Compressor Blade, Row 16	AA26K0516
32	A2A2001116-G002	Locking Compressor Blade, Row 16	AA26K0517

End of Annex A. Total 32 line items, serial numbers AA26K0486 to AA26K0517.