

Report No. 24PTP\_01PM04240183

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# **Preventive Maintenance Action Report**

EQUIPMENT : DEFIBRILLATORS, EXTERNAL, MANUAL

ID CODE : PTP00306

MANUFACTURER : PHILIPS

MODEL : EFFICIA DFM100

SERIAL No. : CN32605631

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

PM. DATE : 18 APRIL 2024

ISSUE DATE : 1 MAY 2024

Supatcha

Performed by : \_\_\_\_\_ Approved by : \_\_\_\_\_

SUPATCHA BUAPUEAN PHUWASIN YIWKIM

### **CONDITION OF THIS RESULT OF TEST**

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE Electrical Safety Fluke ESA615 3494034 23MD774 7 Jun 2024 Analyzer

Defibrillator Fluke Impulse 7000DP 2079335 23MD775 7 Jun 2024

Analyzer

#### 2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)
- Technology Promotion Association (Thai-Japan)

## 3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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## 1. Qualitative Tests

| No. | List  | Pass | Fail | None | Comment |
|-----|---|------|------|------|---------|
| 1   | Chassis/Housing                             | /    |      |      |         |
| 2   | Mount/Fasteners                             | /    |      |      |         |
| 3   | Casters/Brakes                              | /    |      |      |         |
| 4   | AC Plug                                     | /    |      |      |         |
| 5   | Receptacles                                 | /    |      |      |         |
| 6   | Line Cord                                   | /    |      |      |         |
| 7   | Strain Reliefs                              | /    |      |      |         |
| 8   | Cables                                      | /    |      |      |         |
| 9   | Fittings/Connectors                         | /    |      |      |         |
| 10  | Paddles/Electrodes                          | /    |      |      |         |
| 11  | Controls/Switches                           | /    |      |      |         |
| 12  | Recorder (ECG)                              | /    |      |      |         |
| 13  | Lead Continuity (ECG)                       | /    |      |      |         |
| 14  | Data Recording                              | /    |      |      |         |
| 15  | Battery/Charger                             | /    |      |      |         |
| 16  | Indicators/Displays                         | /    |      |      |         |
| 17  | Self-Test                                   | /    |      |      |         |
| 18  | Time/Date Settings                          | /    |      |      |         |
| 19  | Cybersecurity                               |      |      | /    |         |
| 20  | Synchronized Cardioverter                   | /    |      |      |         |
| 21  | Integral Output Tester                      | /    |      |      |         |
| 22  | Alarms                                      | /    |      |      |         |
| 23  | Pacemaker Demand-Mode Activation/Inhibition | /    |      |      |         |
| 24  | Audible Signals                             | /    |      |      |         |
| 25  | Labeling                                    | /    |      |      |         |
| 26  | Accessories                                 | /    |      |      |         |

### 2. Quantitative Tests

| No. | List                                   | Pass | Fail | None | Comment  |
|-----|--|------|------|------|----------|
| 1 ( | Grounding Resistance ≤0.5Ω             | /    |      |      | 0.213 Ω  |
| 2 0 | Chassis Leakage Current ≤500µA         | /    |      |      | 100.9 μΑ |
| 3 I | Lead -to-Ground Leakage Current ≤100µA | /    |      |      | 5.9 μΑ   |
| 8   | grounded; ≤500μA ungrounded            |      |      |      |          |



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### 2. Quantitative Tests (Continues)

| No. | List   | Pass | Fail | None | Comment            |
|-----|--|------|------|------|--------------------|
| 4   | Manual Mode Defibrillator Output ±4 J low; ±15%  | /    |      |      |                    |
|     | high   |      |      |      |                    |
| 5   | Automated Mode Analysis and Defibrillator Output | /    |      |      | AED 150J = 149.4J  |
|     | per mfr/hosp policy                              |      |      |      |                    |
| 6   | Multiple Discharge Output Energy and Charge      | /    |      |      |                    |
|     | Time $\pm 15\%$ , $\leq 10$ sec                  |      |      |      |                    |
| 7   | Pediatric Mode Output Energy ≤50 J               | /    |      |      |                    |
| 8   | Internal Paddle Energy Limit ≤50 J               |      |      | /    |                    |
| 9   | Energy after 50 Sec (Manual Mode) ≥85%           | /    |      |      |                    |
| 10  | Synchronized Cardioverter Operation ≤60 msec     | /    |      |      | 100J = 99.1J, 29ms |
|     | after R-wave                                     |      |      |      |                    |
| 11  | Paper Speed ±2%                                  | /    |      |      |                    |
| 12  | Heart Rate ±5%                                   | /    |      |      |                    |
| 13  | Heart Rate Alarm                                 | /    |      |      |                    |
| 14  | Pacing Rate ±5%                                  | /    |      |      |                    |
| 15  | Pacing Amplitude ±10%                            | /    |      |      |                    |
| 16  | Pacing Pulse Width ±10%                          | /    |      |      |                    |
| 17  | Demand-Mode Sensitivity ≤0.5 mV or mfr spec      | /    |      |      |                    |

## 3. Preventive Maintenance

| No. | List                               | Pass | Fail | None | Comment |
|-----|------------------------------------|------|------|------|---------|
| 1   | Clean the exterior and accessories | /    |      |      |         |
| 2   | Lubricate                          |      |      | /    |         |
| 3   | Adjust                             |      |      | /    |         |
| 4   | Replace                            |      |      | /    |         |

 $Electrical\ Safety\ Test: Master\ used\ Electrical\ Safety\ Analyzer\ (\ Metron\ /\ QA-90\ )\ according\ to\ IEC.60601.1$