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1. Description:

| Commodity         | Material      | Standard       | Condition |
|-------------------|---------------|----------------|-----------|
| Ti-6Al-4V ELI bar | Ti-6Al-4V ELI | ASTM F136      | Annealed  |
| Heat NO.          | Lot No.       | Size           | Weight    |
| MT17617           | 1709204       | dia 4.2x2000mm | 12.00Kgs  |

2. Chemical composition (wt%) :

| Element                | Ti     | N    | C     | H     | Fe    | O    | Al      | V       |      |
|------------------------|--------|------|-------|-------|-------|------|---------|---------|------|
| Requirements<br>(max.) | Bal    | 0.05 | 0.08  | 0.012 | 0.25  | 0.13 | 5.5-6.5 | 3.5-4.5 |      |
| Results                | top    | Bal  | 0.006 | 0.01  | 0.001 | 0.05 | 0.11    | 6.23    | 4.2  |
|                        | bottom | Bal  | /     | /     | /     | 0.05 | 0.12    | 6.18    | 4.15 |

3. Mechanical properties:

| Test Items   | Tensile strength<br>Rm<br>(MPa) | Yield strength<br>Rp0.2<br>(MPa) | Elongations<br>(%) |
|--------------|---------------------------------|----------------------------------|--------------------|
| Requirements | >=860                           | >=795                            | >=10               |
| Results      | 975                             | 830                              | 17.5               |

4. Other test items:

| Microstructure | Ultrasonic | Dimensional<br>Inspection | Visual<br>Inspection | Surface<br>contamination |
|----------------|------------|---------------------------|----------------------|--------------------------|
| Qualified      | Qualified  | Qualified                 | Qualified            | Clean                    |

5. Conclusion and Statement:

We hereby certify that these Titanium plate Ti-6Al-4V ELI herein has been manufactured, samples, tested and inspected in accordance with ASTM F136 and other specified requirements of contract number TG1700068a, and met these requirements.

| Inspected by    | Prepared by     | Approved by     |
|-----------------|-----------------|-----------------|
| Michele Zhang   | Jimmy Liu       | Andrew Wang     |
| Sep.18th, 2017. | Sep.18th, 2017. | Sep.18th, 2017. |